



O-Rings





O-Rings

Standard Size



O-Rings first became popular during World War II. One of the early standards, AN6227, contained only 88 sizes. As the usefulness and flexibility of the O-Ring became apparent, additional standards were developed to expand the sizes available to the engineers of the day. Today, AS-568, containing 379 sizes, is considered to be the O-Ring industry's standard.

The following 11 pages list the O-Rings that *Precision Associates* considers to be standard sizes. This list contains not only the AS-568 O-Rings, but our unique extended sizes. PAI has added these O-Rings to the beginning and/or end of each Cross Section series. You will find 26 sizes added to the 400 series alone.

Our O-Rings are available in more than 1,000 compounds developed by PAI chemists to meet the challenging requirements of today's applications. Refer to our Compound Selection guide, or call us for help determining the material best suited for your application.

The dimensions and tolerances listed are per AS-568 and apply to our standard 70 Durometer Buna N. Due to the variations in shrink characteristics of rubber materials, design engineers should not assume that the dimensions and tolerances will apply to all materials. General shrink characteristics are available in PAI Technical Bulletin 111. When necessary, you may contact Precision Associates' Customer Service department to obtain the expected dimensions and tolerances for our other compounds.

If our Standard Size O-Rings will not meet your needs, be sure to check out our very large selection of Special Sizes starting on page 15 of this document.

Mold IDen	Nominal Dimensions			Actual Dimensions		
	ID	OD	C/S	ID	C/S	OD (Ref)
1-001	1/32	3/32	1/32	.029 ± .004	.040 ± .003	.109
40-70	5/64	9/64	1/32	.070 ± .005	.040	.150
1-002	3/64	9/64	3/64	.042 ± .004	.050	.142
1-003	1/16	11/64	1/16	.056	.060	.176
1-004	5/64	13/64	1/16	.070 ± .005	.070	.210
1-005	7/64	15/64	1/16	.101	.070	.241
1-006	1/8	1/4	1/16	.114	.070	.254
1-007	5/32	9/32	1/16	.145	.070	.285
1-008	3/16	5/16	1/16	.176	.070	.316
1-009	7/32	11/32	1/16	.208	.070	.348
1-010	1/4	3/8	1/16	.239	.070	.379
1-011	5/16	7/16	1/16	.301	.070	.441
1-012	3/8	1/2	1/16	.364	.070	.504
1-013	7/16	9/16	1/16	.426	.070	.566
1-014	1/2	5/8	1/16	.489	.070	.629
1-015	9/16	11/16	1/16	.551 ± .007	.070	.691
1-016	5/8	3/4	1/16	.614 ± .009	.070	.754
1-017	11/16	13/16	1/16	.676	.070	.816
1-018	3/4	7/8	1/16	.739	.070	.879
1-019	13/16	15/16	1/16	.801	.070	.941



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	ID	OD	C/S	ID	C/S	OD (Ref)
1-019	13/16	15/16	1/16	.801 ± .009	.070 ± .003	.941
1-020	7/8	1	1/16	.864	.070	1.004
1-021	15/16	1 1/16	1/16	.926	.070	1.066
1-022	1	1 1/8	1/16	.989 ± .010	.070	1.129
1-023	1 1/16	1 3/16	1/16	1.051	.070	1.191
1-024	1 1/8	1 1/4	1/16	1.114	.070	1.254
1-025	1 3/16	1 5/16	1/16	1.176	.070	1.316
1-026	1 1/4	1 3/8	1/16	1.239	.070	1.379
1-027	1 5/16	1 7/16	1/16	1.301	.070	1.441
1-028	1 3/8	1 1/2	1/16	1.364 ± .013	.070	1.504
1-029	1 1/2	1 5/8	1/16	1.489	.070	1.629
1-030	1 5/8	1 3/4	1/16	1.614	.070	1.754
1-031	1 3/4	1 7/8	1/16	1.739 ± .015	.070	1.879
1-032	1 7/8	2	1/16	1.864	.070	2.004
1-033	2	2 1/8	1/16	1.989 ± .018	.070	2.129
1-034	2 1/8	2 1/4	1/16	2.114	.070	2.254
1-035	2 1/4	2 3/8	1/16	2.239	.070	2.379
1-036	2 3/8	2 1/2	1/16	2.364	.070	2.504
1-037	2 1/2	2 5/8	1/16	2.489	.070	2.629
1-038	2 5/8	2 3/4	1/16	2.614 ± .020	.070	2.754
1-039	2 3/4	2 7/8	1/16	2.739	.070	2.879
1-040	2 7/8	3	1/16	2.864	.070	3.004
1-041	3	3 1/8	1/16	2.989 ± .024	.070	3.129
1-042	3 1/4	3 3/8	1/16	3.239	.070	3.379
1-043	3 1/2	3 5/8	1/16	3.489	.070	3.629
1-044	3 3/4	3 7/8	1/16	3.739 ± .027	.070	3.879
1-045	4	4 1/8	1/16	3.989	.070	4.129
1-046	4 1/4	4 3/8	1/16	4.239 ± .030	.070	4.379
1-047	4 1/2	4 5/8	1/16	4.489	.070	4.629
1-048	4 3/4	4 7/8	1/16	4.739	.070	4.879
1-049	5	5 1/8	1/16	4.989 ± .037	.070	5.129
1-050	5 1/4	5 3/8	1/16	5.239	.070	5.379
1-051	5 1/2	5 5/8	1/16	5.489	.070	5.629
1-052	5 3/4	5 7/8	1/16	5.739	.070	5.879
1-053	6	6 1/8	1/16	5.989	.070	6.129
1-054	6 1/4	6 3/8	1/16	6.239 ± .040	.070	6.379
1-055	6 1/2	6 5/8	1/16	6.489	.070	6.629
1-056	6 3/4	6 7/8	1/16	6.739	.070	6.879
1-057	7	7 1/8	1/16	6.989	.070	7.129
1-058	7 1/4	7 3/8	1/16	7.239 ± .045	.070	7.379
1-059	7 1/2	7 5/8	1/16	7.489	.070	7.629
1-060	7 3/4	7 7/8	1/16	7.739	.070	7.879
1-061	8	8 1/8	1/16	7.989	.070	8.129

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Mold IDen	Nominal Dimensions			Actual Dimensions		
	ID	OD	C/S	ID	C/S	OD (Ref)
1-102	1/16	1/4	3/32	.049 ± .005	.103 ± .003	0.256
1-103	3/32	9/32	3/32	.081	.103	0.287
1-104	1/8	5/16	3/32	.112	.103	0.318
1-105	5/32	11/32	3/32	.143	.103	0.349
1-106	3/16	3/8	3/32	.175	.103	0.381
1-107	7/32	13/32	3/32	.206	.103	0.412
1-108	1/4	7/16	3/32	.237	.103	0.443
1-109	5/16	1/2	3/32	.299	.103	0.505
1-110	3/8	9/16	3/32	.362	.103	0.568
1-111	7/16	5/8	3/32	.424	.103	0.630
1-112	1/2	11/16	3/32	.487	.103	0.693
1-113	9/16	3/4	3/32	.549 ± .007	.103	0.755
1-114	5/8	13/16	3/32	.612 ± .009	.103	0.818
1-115	11/16	7/8	3/32	.674	.103	0.880
1-116	3/4	15/16	3/32	.737	.103	0.943
1-117	13/16	1	3/32	.799 ± .010	.103	1.005
1-118	7/8	1 1/16	3/32	.862	.103	1.068
1-119	15/16	1 1/8	3/32	.924	.103	1.130
1-120	1	1 3/16	3/32	.987	.103	1.193
1-121	1 1/16	1 1/4	3/32	1.049	.103	1.255
1-122	1 1/8	1 5/16	3/32	1.112	.103	1.318
1-123	1 3/16	1 3/8	3/32	1.174 ± .012	.103	1.380
1-124	1 1/4	1 7/16	3/32	1.237	.103	1.443
1-125	1 5/16	1 1/2	3/32	1.299	.103	1.505
1-126	1 3/8	1 9/16	3/32	1.362	.103	1.568
1-127	1 7/16	1 5/8	3/32	1.424	.103	1.630
1-128	1 1/2	1 11/16	3/32	1.487	.103	1.693
1-129	1 9/16	1 3/4	3/32	1.549 ± .015	.103	1.755
1-130	1 5/8	1 13/16	3/32	1.612	.103	1.818
1-131	1 11/16	1 7/8	3/32	1.674	.103	1.880
1-132	1 3/4	1 15/16	3/32	1.737	.103	1.943
1-133	1 13/16	2	3/32	1.799	.103	2.005
1-134	1 7/8	2 1/16	3/32	1.862	.103	2.068
1-135	1 15/16	2 1/8	3/32	1.925 ± .017	.103	2.131
1-136	2	2 3/16	3/32	1.987	.103	2.193
1-137	2 1/16	2 1/4	3/32	2.050	.103	2.256
1-138	2 1/8	2 5/16	3/32	2.112	.103	2.318
1-139	2 3/16	2 3/8	3/32	2.175	.103	2.381
1-140	2 1/4	2 7/16	3/32	2.237	.103	2.443
1-141	2 5/16	2 1/2	3/32	2.300 ± .020	.103	2.506
1-142	2 3/8	2 9/16	3/32	2.362	.103	2.568
1-143	2 7/16	2 5/8	3/32	2.425	.103	2.631
1-144	2 1/2	2 11/16	3/32	2.487	.103	2.693



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	ID	OD	C/S	ID	C/S	OD (Ref)
1-145	2 9/16	2 3/4	3/32	2.550 ± .020	.103 ± .003	2.756
1-146	2 5/8	2 13/16	3/32	2.612 ±	.103	2.818
1-147	2 11/16	2 7/8	3/32	2.675 ± .022	.103	2.881
1-148	2 3/4	2 15/16	3/32	2.737 ±	.103	2.943
1-149	2 13/16	3	3/32	2.800 ±	.103	3.006
1-150	2 7/8	3 1/16	3/32	2.862 ±	.103	3.068
1-151	3	3 3/16	3/32	2.987 ± .024	.103	3.193
1-152	3 1/4	3 7/16	3/32	3.237 ±	.103	3.443
1-153	3 1/2	3 11/16	3/32	3.487 ±	.103	3.693
1-154	3 3/4	3 15/16	3/32	3.737 ± .028	.103	3.943
1-155	4	4 3/16	3/32	3.987 ±	.103	4.193
1-156	4 1/4	4 7/16	3/32	4.237 ± .030	.103	4.443
1-157	4 1/2	4 11/16	3/32	4.487 ±	.103	4.693
1-158	4 3/4	4 15/16	3/32	4.737 ±	.103	4.943
1-159	5	5 3/16	3/32	4.987 ± .035	.103	5.193
1-160	5 1/4	5 7/16	3/32	5.237 ±	.103	5.443
1-161	5 1/2	5 11/16	3/32	5.487 ±	.103	5.693
1-162	5 3/4	5 15/16	3/32	5.737 ±	.103	5.943
1-163	6	6 3/16	3/32	5.987 ±	.103	6.193
1-164	6 1/4	6 7/16	3/32	6.237 ± .040	.103	6.443
1-165	6 1/2	6 11/16	3/32	6.487 ±	.103	6.693
1-166	6 3/4	6 15/16	3/32	6.737 ±	.103	6.943
1-167	7	7 3/16	3/32	6.987 ±	.103	7.193
1-168	7 1/4	7 7/16	3/32	7.237 ± .045	.103	7.443
1-169	7 1/2	7 11/16	3/32	7.487 ±	.103	7.693
1-170	7 3/4	7 15/16	3/32	7.737 ±	.103	7.943
1-171	8	8 3/16	3/32	7.987 ±	.103	8.193
1-172	8 1/4	8 7/16	3/32	8.237 ± .050	.103	8.443
1-173	8 1/2	8 11/16	3/32	8.487 ±	.103	8.693
1-174	8 3/4	8 15/16	3/32	8.737 ±	.103	8.943
1-175	9	9 3/16	3/32	8.987 ±	.103	9.193
1-176	9 1/4	9 7/16	3/32	9.237 ± .055	.103	9.443
1-177	9 1/2	9 11/16	3/32	9.487 ±	.103	9.693
1-178	9 3/4	9 15/16	3/32	9.737 ±	.103	9.943
1-179	10	10 3/16	3/32	9.987 ±	.103	10.193



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Mold IDen	Nominal Dimensions			Actual Dimensions		
	ID	OD	C/S	ID	C/S	OD (Ref)
1-201	3/16	7/16	1/8	0.171 ± .005	.139 ± .004	0.449
1-202	1/4	1/2	1/8	0.234	.139	0.512
1-203	5/16	9/16	1/8	0.301	.139	0.579
1-204	3/8	5/8	1/8	0.359	.139	0.637
1-205	7/16	11/16	1/8	0.421	.139	0.699
1-206	1/2	3/4	1/8	0.484	.139	0.762
1-207	9/16	13/16	1/8	0.549 ± .007	.139	0.827
1-208	5/8	7/8	1/8	0.609 ± .009	.139	0.887
1-209	11/16	15/16	1/8	.672	.139	0.950
1-210	3/4	1	1/8	.734 ± .010	.139	1.012
1-211	13/16	1 1/16	1/8	.796	.139	1.074
1-212	7/8	1 1/8	1/8	.859	.139	1.137
1-213	15/16	1 3/16	1/8	.921	.139	1.199
1-214	1	1 1/4	1/8	.984	.139	1.262
1-215	1 1/16	1 5/16	1/8	1.046	.139	1.324
1-216	1 1/8	1 3/8	1/8	1.109 ± .012	.139	1.387
1-217	1 3/16	1 7/16	1/8	1.171	.139	1.449
1-218	1 1/4	1 1/2	1/8	1.234	.139	1.512
1-219	1 5/16	1 9/16	1/8	1.296	.139	1.574
1-220	1 3/8	1 5/8	1/8	1.359	.139	1.637
1-221	1 7/16	1 11/16	1/8	1.421	.139	1.699
1-222	1 1/2	1 3/4	1/8	1.484 ± .015	.139	1.762
1-223	1 5/8	1 7/8	1/8	1.609	.139	1.887
1-224	1 3/4	2	1/8	1.734	.139	2.012
1-225	1 7/8	2 1/8	1/8	1.859 ± .018	.139	2.137
1-226	2	2 1/4	1/8	1.984	.139	2.262
1-227	2 1/8	2 3/8	1/8	2.109	.139	2.387
1-228	2 1/4	2 1/2	1/8	2.234 ± .020	.139	2.512
1-229	2 3/8	2 5/8	1/8	2.359	.139	2.637
1-230	2 1/2	2 3/4	1/8	2.484	.139	2.762
1-231	2 5/8	2 7/8	1/8	2.609	.139	2.887
1-232	2 3/4	3	1/8	2.734 ± .024	.139	3.012
1-233	2 7/8	3 1/8	1/8	2.859	.139	3.137
1-234	3	3 1/4	1/8	2.984	.139	3.262
1-235	3 1/8	3 3/8	1/8	3.109	.139	3.387
1-236	3 1/4	3 1/2	1/8	3.234	.139	3.512
1-237	3 3/8	3 5/8	1/8	3.359	.139	3.637
1-238	3 1/2	3 3/4	1/8	3.484	.139	3.762
1-239	3 5/8	3 7/8	1/8	3.609 ± .028	.139	3.887
1-240	3 3/4	4	1/8	3.734	.139	4.012
1-241	3 7/8	4 1/8	1/8	3.859	.139	4.137
1-242	4	4 1/4	1/8	3.984	.139	4.262
1-243	4 1/8	4 3/8	1/8	4.109	.139	4.387



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Mold IDen	Nominal Dimensions			Actual Dimensions		
	ID	OD	C/S	ID	C/S	OD (Ref)
1-244	4 1/4	4 1/2	1/8	4.234 ± .030	.139 ± .004	4.512
1-245	4 3/8	4 5/8	1/8	4.359	.139	4.637
1-246	4 1/2	4 3/4	1/8	4.484	.139	4.762
1-247	4 5/8	4 7/8	1/8	4.609	.139	4.887
1-248	4 3/4	5	1/8	4.734	.139	5.012
1-249	4 7/8	5 1/8	1/8	4.859 ± .035	.139	5.137
1-250	5	5 1/4	1/8	4.984	.139	5.262
1-251	5 1/8	5 3/8	1/8	5.109	.139	5.387
1-252	5 1/4	5 1/2	1/8	5.234	.139	5.512
1-253	5 3/8	5 5/8	1/8	5.359	.139	5.637
1-254	5 1/2	5 3/4	1/8	5.484	.139	5.762
1-255	5 5/8	5 7/8	1/8	5.609	.139	5.887
1-256	5 3/4	6	1/8	5.734	.139	6.012
1-257	5 7/8	6 1/8	1/8	5.859	.139	6.137
1-258	6	6 1/4	1/8	5.984	.139	6.262
1-259	6 1/4	6 1/2	1/8	6.234 ± .040	.139	6.512
1-260	6 1/2	6 3/4	1/8	6.484	.139	6.762
1-261	6 3/4	7	1/8	6.734	.139	7.012
1-262	7	7 1/4	1/8	6.984 ±	.139	7.262
1-263	7 1/4	7 1/2	1/8	7.234 ± .045	.139	7.512
1-264	7 1/2	7 3/4	1/8	7.484	.139	7.762
1-265	7 3/4	8	1/8	7.734	.139	8.012
1-266	8	8 1/4	1/8	7.984	.139	8.262
1-267	8 1/4	8 1/2	1/8	8.234 ± .050	.139	8.512
1-268	8 1/2	8 3/4	1/8	8.484	.139	8.762
1-269	8 3/4	9	1/8	8.734	.139	9.012
1-270	9	9 1/4	1/8	8.984	.139	9.262
1-271	9 1/4	9 1/2	1/8	9.234 ± .055	.139	9.512
1-272	9 1/2	9 3/4	1/8	9.484	.139	9.762
1-273	9 3/4	10	1/8	9.734	.139	10.012
1-274	10	10 1/4	1/8	9.984	.139	10.262
1-275	10 1/2	10 3/4	1/8	10.484	.139	10.762
1-276	11	11 1/4	1/8	10.984 ± .065	.139	11.262
1-277	11 1/2	11 3/4	1/8	11.484	.139	11.762
1-278	12	12 1/4	1/8	11.984	.139	12.262
1-279	13	13 1/4	1/8	12.984	.139	13.262
1-280	14	14 1/4	1/8	13.984	.139	14.262
1-281	15	15 1/4	1/8	14.984	.139	15.262
1-282	16	16 1/4	1/8	15.955 ± .075	.139	16.233
1-283	17	17 1/4	1/8	16.955 ± .080	.139	17.233
1-284	18	18 1/4	1/8	17.955 ± .085	.139	18.233
1-286	20	20 1/4	1/8	19.960 ± .090	.139	20.238



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	ID	OD	C/S	ID	C/S	OD (Ref)
1-514	1	1 5/16	5/32	.975 ± .010	.176 ± .005	1.327
1-515	1 1/16	1 3/8	5/32	1.038	.176	1.390
1-516	1 1/8	1 7/16	5/32	1.100 ± .012	.176	1.452
1-517	1 3/16	1 1/2	5/32	1.163	.176	1.515
1-518	1 1/4	1 9/16	5/32	1.225	.176	1.577
1-519	1 5/16	1 5/8	5/32	1.288	.176	1.640
1-520	1 3/8	1 11/16	5/32	1.350	.176	1.702
1-521	1 7/16	1 3/4	5/32	1.413	.176	1.765
1-522	1 1/2	1 13/16	5/32	1.475 ± .015	.176	1.827
1-524	1 5/8	1 15/16	5/32	1.600	.176	1.952
1-526	1 3/4	2 1/16	5/32	1.725	.176	2.077
1-528	1 7/8	2 3/16	5/32	1.850	.176	2.202
1-530	2	2 5/16	5/32	1.975 ± .018	.176	2.327
1-532	2 1/8	2 7/16	5/32	2.100	.176	2.452
1-534	2 1/4	2 9/16	5/32	2.225	.176	2.577
1-536	2 3/8	2 11/16	5/32	2.350	.176	2.702
1-538	2 1/2	2 13/16	5/32	2.475 ± .020	.176	2.827
1-540	2 5/8	2 15/16	5/32	2.600	.176	2.952
1-542	2 3/4	3 1/16	5/32	2.725	.176	3.077
1-544	2 7/8	3 3/16	5/32	2.850	.176	3.202
1-546	3	3 5/16	5/32	2.975 ± .024	.176	3.327
1-548	3 1/8	3 7/16	5/32	3.100	.176	3.452
1-550	3 1/4	3 9/16	5/32	3.225	.176	3.577
1-552	3 3/8	3 11/16	5/32	3.350	.176	3.702
1-554	3 1/2	3 13/16	5/32	3.475	.176	3.827
1-556	3 5/8	3 15/16	5/32	3.600 ± .028	.176	3.952
1-558	3 3/4	4 1/16	5/32	3.725	.176	4.077
1-560	3 7/8	4 3/16	5/32	3.850	.176	4.202
1-562	4	4 5/16	5/32	3.975	.176	4.327
1-563	4 1/8	4 7/16	5/32	4.100	.176	4.452
1-565	4 1/4	4 9/16	5/32	4.225 ± .030	.176	4.577
1-566	4 3/8	4 11/16	5/32	4.350	.176	4.702
1-568	4 1/2	4 13/16	5/32	4.475	.176	4.827
1-569	4 5/8	4 15/16	5/32	4.600	.176	4.952
1-571	4 3/4	5 1/16	5/32	4.725	.176	5.077
1-572	4 7/8	5 3/16	5/32	4.850	.176	5.202



O-Rings

Standard Size



Mold IDen	Nominal Dimensions			Actual Dimensions		
	ID	OD	C/S	ID	C/S	OD (Ref)
1-308	3/8	3/4	3/16	.350 ± .005	0.210 ± .005	0.770
1-309	7/16	13/16	3/16	.412	0.210	0.832
1-310	1/2	7/8	3/16	.475	0.210	0.895
1-311	9/16	15/16	3/16	.537 ± .007	0.210	0.959
1-312	5/8	1	3/16	.600 ± .009	0.210	1.022
1-313	11/16	1 1/16	3/16	.662	0.210	1.084
1-314	3/4	1 1/8	3/16	.725 ± .010	0.210	1.147
1-315	13/16	1 3/16	3/16	.787	0.210	1.209
1-316	7/8	1 1/4	3/16	.850	0.210	1.270+Q537
1-317	15/16	1 5/16	3/16	.912 ± .010	0.210	1.334
1-318	1	1 3/8	3/16	.975	0.210	1.395
1-319	1 1/16	1 7/16	3/16	1.037	0.210	1.457
1-320	1 1/8	1 1/2	3/16	1.100 ± .012	0.210	1.520
1-321	1 3/16	1 9/16	3/16	1.162	0.210	1.582
1-322	1 1/4	1 5/8	3/16	1.225	0.210	1.645
1-323	1 5/16	1 11/16	3/16	1.287	0.210	1.707
1-324	1 3/8	1 3/4	3/16	1.350	0.210	1.770
1-325	1 1/2	1 7/8	3/16	1.475 ± .015	0.210	1.895
1-326	1 5/8	2	3/16	1.600	0.210	2.020
1-327	1 3/4	2 1/8	3/16	1.725	0.210	2.145
1-328	1 7/8	2 1/4	3/16	1.850	0.210	2.270
1-329	2	2 3/8	3/16	1.975 ± .018	0.210	2.395
1-330	2 1/8	2 1/2	3/16	2.100	0.210	2.520
1-331	2 1/4	2 5/8	3/16	2.225	0.210	2.645
1-332	2 3/8	2 3/4	3/16	2.350	0.210	2.770
1-333	2 1/2	2 7/8	3/16	2.475 ± .020	0.210	2.895
1-334	2 5/8	3	3/16	2.600	0.210	3.020
1-335	2 3/4	3 1/8	3/16	2.725	0.210	3.145
1-336	2 7/8	3 1/4	3/16	2.850	0.210	3.270
1-337	3	3 3/8	3/16	2.975 ± .024	0.210	3.395
1-338	3 1/8	3 1/2	3/16	3.100	0.210	3.520
1-339	3 1/4	3 5/8	3/16	3.225	0.210	3.645
1-340	3 3/8	3 3/4	3/16	3.350	0.210	3.770
1-341	3 1/2	3 7/8	3/16	3.475	0.210	3.895
1-342	3 5/8	4	3/16	3.600 ± .028	0.210	4.020
1-343	3 3/4	4 1/8	3/16	3.725	0.210	4.145
1-344	3 7/8	4 1/4	3/16	3.850	0.210	4.270
1-345	4	4 3/8	3/16	3.975	0.210	4.395
1-346	4 1/8	4 1/2	3/16	4.100	0.210	4.520
1-347	4 1/4	4 5/8	3/16	4.225 ± .030	0.210	4.645
1-348	4 3/8	4 3/4	3/16	4.350	0.210	4.770
1-349	4 1/2	4 7/8	3/16	4.475	0.210	4.895
1-350	4 5/8	5	3/16	4.600	0.210	5.020
1-351	4 3/4	5 1/8	3/16	4.725	0.210	5.145
1-352	4 7/8	5 1/4	3/16	4.850 ± .037	0.210	5.270

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O-Rings

Standard Size



Mold IDen	Nominal Dimensions			Actual Dimensions		
	ID	OD	C/S	ID	C/S	OD (Ref)
1-353	5	5 3/8	3/16	4.975 ± .037	0.210 ± .005	5.395
1-354	5 1/8	5 1/2	3/16	5.100	0.210	5.520
1-355	5 1/4	5 5/8	3/16	5.225	0.210	5.645
1-356	5 3/8	5 3/4	3/16	5.350	0.210	5.770
1-357	5 1/2	5 7/8	3/16	5.475	0.210	5.895
1-358	5 5/8	6	3/16	5.600	0.210	6.020
1-359	5 3/4	6 1/8	3/16	5.725	0.210	6.145
1-360	5 7/8	6 1/4	3/16	5.850 ± .037	0.210	6.270
1-361	6	6 3/8	3/16	5.975	0.210	6.395
1-362	6 1/4	6 5/8	3/16	6.225 ± .040	0.210	6.645
1-363	6 1/2	6 7/8	3/16	6.475	0.210	6.895
1-364	6 3/4	7 1/8	3/16	6.725	0.210	7.145
1-365	7	7 3/8	3/16	6.975	0.210	7.395
1-366	7 1/4	7 5/8	3/16	7.225 ± .045	0.210	7.645
1-367	7 1/2	7 7/8	3/16	7.475	0.210	7.895
1-368	7 3/4	8 1/8	3/16	7.725	0.210	8.145
1-369	8	8 3/8	3/16	7.975	0.210	8.395
1-370	8 1/4	8 5/8	3/16	8.225 ± .050	0.210	8.645
1-371	8 1/2	8 7/8	3/16	8.475	0.210	8.895
1-372	8 3/4	9 1/8	3/16	8.725	0.210	9.145
1-373	9	9 3/8	3/16	8.975	0.210	9.395
1-374	9 1/4	9 5/8	3/16	9.225 ± .055	0.210	9.645
1-375	9 1/2	9 7/8	3/16	9.475	0.210	9.895
1-376	9 3/4	10 1/8	3/16	9.725	0.210	10.145
1-377	10	10 3/8	3/16	9.975	0.210	10.395
1-378	10 1/2	10 7/8	3/16	10.475 ± .060	0.210	10.895
1-379	11	11 3/8	3/16	10.975	0.210	11.395
1-380	11 1/2	11 7/8	3/16	11.475 ± .065	0.210	11.895
1-381	12	12 3/8	3/16	11.975	0.210	12.395
1-382	13	13 3/8	3/16	12.975	0.210	13.395
1-383	14	14 3/8	3/16	13.975 ± .070	0.210	14.395
1-384	15	15 3/8	3/16	14.975	0.210	15.395
1-385	16	16 3/8	3/16	15.955	0.210	16.375
1-386	17	17 3/8	3/16	16.955 ± .080	0.210	17.375
1-387	18	18 3/8	3/16	17.955 ± .085	0.210	18.375
1-388	19	19 3/8	3/16	18.955 ± .090	0.210	19.375
1-389	20	20 3/8	3/16	19.955 ± .095	0.210	20.375
1-390	21	21 3/8	3/16	20.955	0.210	21.375
1-391	22	22 3/8	3/16	21.955	0.210	22.373
1-392	23	23 3/8	3/16	22.940 ± .105	0.210	23.360
1-393	24	24 3/8	3/16	23.940 ± .110	0.210	24.360
1-394	25	25 3/8	3/16	24.940 ± .115	0.210	25.360
1-395	26	26 3/8	3/16	25.940 ± .120	0.210	26.360
1-396	27	27 3/8	3/16	26.940	0.210	27.360

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O-Rings

Standard Size



Mold IDen	Nominal Dimensions			Actual Dimensions		
	ID	OD	C/S	ID	C/S	OD (Ref)
1-400	1 3/8	1 7/8	1/4	1.350 ± .012	.275 ± .006	1.900
1-401	1 1/2	2	1/4	1.475 ± .015	.275	2.025
1-402	1 5/8	2 1/8	1/4	1.600	.275	2.150
1-403	1 3/4	2 1/4	1/4	1.725	.275	2.275
1-404	1 7/8	2 3/8	1/4	1.850	.275	2.400
1-405	2	2 1/2	1/4	1.975 ± .018	.275	2.525
1-406	2 1/8	2 5/8	1/4	2.100 ± .018	.275	2.650
1-407	2 1/4	2 3/4	1/4	2.225	.275	2.775
1-408	2 3/8	2 7/8	1/4	2.350	.275	2.900
1-409	2 1/2	3	1/4	2.475 ± .020	.275	3.025
1-410	2 5/8	3 1/8	1/4	2.600	.275	3.150
1-411	2 3/4	3 1/4	1/4	2.725	.275	3.275
1-412	2 7/8	3 3/8	1/4	2.850	.275	3.400
1-413	3	3 1/2	1/4	2.975 ± .024	.275	3.525
1-414	3 1/8	3 5/8	1/4	3.100	.275	3.650
1-415	3 1/4	3 3/4	1/4	3.225	.275	3.775
1-416	3 3/8	3 7/8	1/4	3.350	.275	3.900
1-417	3 1/2	4	1/4	3.475	.275	4.025
1-418	3 5/8	4 1/8	1/4	3.600 ± .028	.275	4.150
1-419	3 3/4	4 1/4	1/4	3.725	.275	4.275
1-420	3 7/8	4 3/8	1/4	3.850	.275	4.400
1-421	4	4 1/2	1/4	3.975	.275	4.525
1-422	4 1/8	4 5/8	1/4	4.100	.275	4.650
1-423	4 1/4	4 3/4	1/4	4.225 ± .030	.275	4.775
1-424	4 3/8	4 7/8	1/4	4.350	.275	4.900
1-425	4 1/2	5	1/4	4.475 ± .033	.275	5.025
1-426	4 5/8	5 1/8	1/4	4.600	.275	5.150
1-427	4 3/4	5 1/4	1/4	4.725	.275	5.275
1-428	4 7/8	5 3/8	1/4	4.850	.275	5.400
1-429	5	5 1/2	1/4	4.975 ± .037	.275	5.525
1-430	5 1/8	5 5/8	1/4	5.100	.275	5.650
1-431	5 1/4	5 3/4	1/4	5.225	.275	5.775
1-432	5 3/8	5 7/8	1/4	5.350	.275	5.900
1-433	5 1/2	6	1/4	5.475	.275	6.025
1-434	5 5/8	6 1/8	1/4	5.600	.275	6.150
1-435	5 3/4	6 1/4	1/4	5.725	.275	6.275
1-436	5 7/8	6 3/8	1/4	5.850	.275	6.400
1-437	6	6 1/2	1/4	5.975	.275	6.525
1-438	6 1/4	6 3/4	1/4	6.225 ± .040	.275	6.775
1-439	6 1/2	7	1/4	6.475	.275	7.025
1-440	6 3/4	7 1/4	1/4	6.725	.275	7.275
1-441	7	7 1/2	1/4	6.975	.275	7.525
1-442	7 1/4	7 3/4	1/4	7.225 ± .045	.275	7.775

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O-Rings

Standard Size



Mold IDen	Nominal Dimensions			Actual Dimensions		
	ID	OD	C/S	ID	C/S	OD (Ref)
1-443	7 1/2	8	1/4	7.475 ± .045	.275 ± .006	8.025
1-444	7 3/4	8 1/4	1/4	7.725	.275	8.275
1-445	8	8 1/2	1/4	7.975	.275	8.525
1-446	8 1/2	9	1/4	8.475 ± .055	.275	9.025
1-447	9	9 1/2	1/4	8.975	.275	9.525
1-448	9 1/2	10	1/4	9.475	.275	10.025
1-449	10	10 1/2	1/4	9.975 ± .055	.275	10.525
1-450	10 1/2	11	1/4	10.475 ± .060	.275	11.025
1-451	11	11 1/2	1/4	10.975	.275	11.525
1-452	11 1/2	12	1/4	11.475	.275	12.025
1-453	12	12 1/2	1/4	11.975	.275	12.525
1-454	12 1/2	13	1/4	12.475	.275	13.025
1-455	13	13 1/2	1/4	12.975	.275	13.525
1-456	13 1/2	14	1/4	13.475 ± .070	.275	14.025
1-457	14	14 1/2	1/4	13.975	.275	14.525
1-458	14 1/2	15	1/4	14.475	.275	15.025
1-459	15	15 1/2	1/4	14.975	.275	15.525
1-460	15 1/2	16	1/4	15.475	.275	16.025
1-461	16	16 1/2	1/4	15.955 ± .075	.275	16.505
1-462	16 1/2	17	1/4	16.455	.275	17.005
1-463	17	17 1/2	1/4	16.955 ± .080	.275	17.505
1-464	17 1/2	18	1/4	17.455 ± .085	.275	18.005
1-465	18	18 1/2	1/4	17.955	.275	18.505
1-466	18 1/2	19	1/4	18.455	.275	19.005
1-467	19	19 1/2	1/4	18.955 ± .090	.275	19.505
1-468	19 1/2	20	1/4	19.455	.275	20.005
1-469	20	20 1/2	1/4	19.955 ± .095	.275	20.505
1-470	21	21 1/2	1/4	20.955	.275	21.505
1-471	22	22 1/2	1/4	21.955 ± .100	.275	22.505
1-472	23	23 1/2	1/4	22.940 ± .105	.275	23.490
1-473	24	24 1/2	1/4	23.940 ± .110	.275	24.490
1-474	25	25 1/2	1/4	24.940 ± .115	.275	25.490
1-475	26	26 1/2	1/4	25.940 ± .120	.275	26.490
1-476	27	27 1/2	1/4	26.955	.275	27.505



O-Rings

Tube & Boss



Mold IDen	Tube Size	Actual Dimensions		
		ID	C/S	OD (Ref)
1-901	3/32	.185 ± .005	.056 ± .003	0.297
1-902	1/8	.239 ±	.064	0.367
1-903	3/16	.301 ±	.064	0.429
1-904	1/4	.351 ±	.072	0.495
1-905	5/16	.414 ±	.072	0.558
1-906	3/8	.468 ±	.078	0.624
1-907	7/16	.530 ±	.082	0.694
1-908	1/2	.644 ± .009	.087	0.818
1-909	9/16	.706 ±	.097	0.900
1-910	5/8	.755 ±	.097	0.949
1-911	11/16	.863 ± .010	.116 ± .004	1.095
1-912	3/4	.924 ±	.116	1.156
1-913	13/16	.986 ±	.116	1.218
1-914	7/8	1.047 ±	.116	1.279
1-915	15/16	1.109 ± .012	.116	1.341
1-916	1	1.171 ±	.116	1.403
1-918	1 1/8	1.355 ±	.116	1.587
1-920	1 1/4	1.475 ±	.118	1.711
1-924	1 1/2	1.720 ± .015	.118	1.956
1-928	1 3/4	2.090 ± .018	.118	2.326
1-932	2	2.337 ± .020	.118	2.573



O-Rings Standard Size



Back by popular demand! Precision Associates has re-created the full size line drawings of our standard O-Rings. Samples of 1/8" and 5/32" Cross Sections are shown below. Call customer service to request your copy, or down load a set today from our websites at: <http://www.PrecisionAssoc.com> or <http://www.PAICustomers.com>.

O-Rings Standard Size 5/32 Cross Section

O-Rings Standard Size 1/8 Cross Section

Mold IDen	Nominal Dimensions			Actual Dimensions		O.D. (Ref)	Specification
	I.D.	O.D.	C/S	I.D.	C/S		
1-201	3/16	7/16	1/8	.171 ±.005	.139 ±.004	.449	AS568-201
1-202	1/4	1/2	1/8	.234	.139	.512	AS568-202
1-203	5/16	9/16	1/8	.301	.139	.579	AS568-203
1-204	3/8	5/8	1/8	.369	.139	.637	AS568-204
1-205	7/16	11/16	1/8	.421	.139	.699	AS568-205
1-206	1/2	3/4	1/8	.484	.139	.762	AS568-206
1-207	9/16	13/16	1/8	.549 ±.007	.139	.827	AS568-207
1-208	5/8	7/8	1/8	.609 ±.009	.139	.887	AS568-208
1-209	11/16	15/16	1/8	.672	.139	.950	AS568-209
1-210	3/4	1	1/8	.734 ±.010	.139	1.012	AS568-210
1-211	13/16	1 1/16	1/8	.796	.139	1.074	AS568-211
1-212	7/8	1 1/8	1/8	.859	.139	1.137	AS568-212
1-213	15/16	1 3/16	1/8	.921	.139	1.199	AS568-213
1-214	1	1 1/4	1/8	.984	.139	1.262	AS568-214
1-215	1 1/16	1 5/16	1/8	1.046	.139	1.324	AS568-215
1-216	1 1/8	1 3/8	1/8	1.109 ±.012	.139	1.387	AS568-216
1-217	1 3/16	1 7/16	1/8	1.171	.139	1.449	AS568-217

Use Scale below to verify dimensional integrity

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O-Rings Special Size



Precision Associates has one of the industries largest collections of special size O-Ring tools. Currently we have over 2,300 different size O-Rings in production. On average, we add a new size each week. To keep up on all of the new sizes, please check out our website at www.PrecisionAssoc.com.

The O-Rings listed here are in order by Inside Diameter (ID) and then Cross Section (C/S). You may also want to reference our Engineer's Guide. It has all of PAI's O-Rings, including Standard Sizes listed in ascending order by OD, with tolerances and volumetric data. If you still can't find the O-Ring to fit your special need, please call our engineering department. Our In-House Tool Shop can produce a mold in short order at a very reasonable cost.

Mold IDen	C/S	ID	OD (Ref)
6-8	0.006	0.008	0.020
10-10	0.010	0.010	0.030
25-10	0.025	0.010	0.060
93-10ES	0.094	0.010	0.198
14-12	0.014	0.012	0.040
38-14	0.038	0.014	0.090
93-15ES	0.095	0.015	0.205
15-16	0.015	0.016	0.046
20-17	0.020	0.017	0.057
40-17	0.040	0.017	0.097
35-18	0.035	0.018	0.088
20-20	0.020	0.020	0.060
29-22	0.029	0.022	0.080
30-23	0.030	0.023	0.083
40-23	0.040	0.023	0.103
16-28	0.016	0.028	0.060
48-28	0.048	0.028	0.124
121-029	0.121	0.029	0.271
17-30	0.017	0.030	0.064
20-30	0.020	0.030	0.070
31-31ES	0.031	0.031	0.093
27-32	0.027	0.032	0.086
87-33VS	0.088	0.033	0.209
15-34	0.015	0.034	0.064
45-35	0.045	0.035	0.125
86-37	0.086	0.037	0.209
19-38	0.019	0.038	0.076
32-39	0.032	0.039	0.103
73-40	0.073	0.040	0.186
23-41	0.023	0.041	0.087
42-42	0.042	0.042	0.126
31-43	0.031	0.043	0.105
17-44	0.017	0.044	0.078
31-43SS	0.031	0.044	0.106
20-45	0.020	0.045	0.085
43-45VS	0.043	0.045	0.131
34-46	0.034	0.046	0.114

Mold IDen	C/S	ID	OD (Ref)
16-47	0.016	0.047	0.079
36-47	0.036	0.047	0.119
35-50	0.035	0.050	0.120
62-50	0.062	0.050	0.174
34-53	0.034	0.053	0.121
64-53	0.064	0.053	0.181
80-54	0.080	0.054	0.214
32-55	0.032	0.055	0.119
42-55	0.042	0.055	0.139
40-57	0.040	0.057	0.137
94-57	0.094	0.057	0.245
40-59SS	0.040	0.060	0.140
56-60	0.056	0.060	0.172
76-60	0.076	0.060	0.212
65-60SS	0.066	0.061	0.193
32-62	0.032	0.062	0.126
47-62	0.047	0.062	0.156
56-61VS	0.056	0.062	0.174
66-61VS	0.067	0.062	0.196
22-63	0.022	0.063	0.107
63-63ES	0.063	0.063	0.189
17-65	0.017	0.065	0.099
35-65	0.035	0.065	0.135
44-65	0.044	0.065	0.153
20-66	0.020	0.066	0.106
12-67VS	0.012	0.068	0.092
31-67SS	0.031	0.068	0.130
25-70	0.025	0.070	0.120
30-70	0.030	0.070	0.130
34-70	0.034	0.070	0.138
109-70	0.109	0.070	0.288
133-70	0.133	0.070	0.336
21-74	0.021	0.074	0.116
53-74	0.053	0.074	0.180
35-75	0.035	0.075	0.145
29-76	0.029	0.076	0.134
30-78	0.030	0.078	0.138



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Mold IDen	C/S	ID	OD (Ref)
49-78	0.049	0.078	0.176
56-78	0.056	0.078	0.190
24-78SS	0.024	0.079	0.127
33-78SS	0.034	0.080	0.148
85-80	0.085	0.080	0.250
28-81	0.028	0.081	0.137
59-79VS	0.060	0.081	0.201
18-81ES	0.018	0.082	0.118
42-82	0.043	0.082	0.168
23-84	0.023	0.084	0.130
48-84	0.048	0.084	0.180
55-85	0.055	0.085	0.195
75-85	0.075	0.085	0.235
93-085	0.093	0.085	0.271
34-86	0.034	0.086	0.154
20-87	0.020	0.087	0.127
40-87	0.040	0.087	0.167
47-87	0.047	0.087	0.181
81-87	0.081	0.087	0.249
70-87	0.071	0.088	0.230
36-89	0.036	0.089	0.161
13-89SS	0.013	0.090	0.116
20-90	0.020	0.090	0.130
25-90	0.025	0.090	0.140
39-91ES	0.039	0.092	0.170
28-94	0.028	0.094	0.150
50-94	0.050	0.094	0.194
63-94	0.063	0.094	0.220
50-94VS	0.051	0.096	0.198
26-97	0.026	0.097	0.149
44-97	0.044	0.097	0.185
23-98	0.023	0.098	0.144
30-98	0.030	0.098	0.158
72-97VS	0.072	0.098	0.242
70-98SS	0.071	0.099	0.241
25-100	0.025	0.100	0.150
38-100	0.038	0.100	0.176
60-100	0.060	0.100	0.220
35-100SS	0.035	0.101	0.171
51-102	0.051	0.102	0.204
75-102	0.075	0.102	0.252
30-103	0.030	0.103	0.163
45-105	0.045	0.105	0.195
34-106	0.034	0.106	0.174
42-105ES	0.042	0.106	0.190

Mold IDen	C/S	ID	OD (Ref)
70-108	0.070	0.108	0.248
40-109	0.040	0.109	0.189
133-109	0.133	0.109	0.375
139-109	0.139	0.109	0.387
20-110	0.020	0.110	0.150
28-110	0.028	0.110	0.166
51-110	0.051	0.110	0.212
32-110VS	0.032	0.111	0.175
60-111	0.060	0.111	0.231
70-113ES	0.070	0.113	0.253
47-114	0.047	0.114	0.208
68-113VS	0.068	0.114	0.250
40-117	0.040	0.117	0.197
42-117	0.042	0.118	0.202
30-118VS	0.030	0.120	0.180
34-118SS	0.035	0.120	0.190
50-120	0.050	0.120	0.220
80-120	0.080	0.120	0.280
63-122VS	0.064	0.124	0.252
31-125	0.031	0.125	0.187
62-125	0.062	0.125	0.249
70-125	0.070	0.125	0.265
40-126SS	0.040	0.127	0.207
56-125VS	0.057	0.127	0.241
50-129	0.050	0.129	0.229
70-127SS	0.071	0.129	0.271
25-130	0.025	0.130	0.180
35-130	0.035	0.130	0.200
95-130	0.095	0.130	0.320
187-130ES	0.188	0.130	0.506
29-134	0.029	0.134	0.192
60-134	0.060	0.134	0.254
75-134	0.075	0.134	0.284
88-135	0.088	0.135	0.311
40-136	0.040	0.136	0.216
58-133SS	0.059	0.136	0.254
25-137SS	0.025	0.138	0.188
36-138	0.036	0.138	0.210
59-138	0.059	0.138	0.256
48-140	0.048	0.140	0.236
50-140	0.050	0.140	0.240
30-140SS	0.030	0.141	0.201
94-142	0.094	0.142	0.330
27-143	0.027	0.143	0.197
25-144	0.025	0.144	0.194

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Mold IDen	C/S	ID	OD (Ref)
12-145	0.012	0.145	0.169
23-144	0.023	0.145	0.191
76-145	0.076	0.145	0.297
80-145	0.080	0.145	0.305
31-146	0.031	0.146	0.208
150-145SVS	0.151	0.146	0.448
40-147	0.040	0.147	0.227
20-150	0.020	0.150	0.190
43-150	0.043	0.150	0.236
22-150ES	0.022	0.151	0.195
23-150ES	0.023	0.151	0.197
36-152	0.036	0.152	0.224
46-152	0.046	0.152	0.244
70-145SS	0.073	0.152	0.298
139-152	0.139	0.152	0.430
32-154	0.032	0.154	0.218
50-154	0.050	0.154	0.254
160-155	0.160	0.155	0.475
18-156	0.018	0.156	0.192
39-154SS	0.039	0.156	0.234
38-157	0.038	0.157	0.233
54-158	0.054	0.158	0.266
59-158	0.059	0.158	0.276
79-157SS	0.079	0.158	0.316
87-158SS	0.089	0.161	0.339
40-162	0.040	0.162	0.242
70-161ES	0.070	0.162	0.302
75-165	0.075	0.165	0.315
178-165	0.178	0.165	0.521
60-166	0.060	0.166	0.286
93-166	0.093	0.166	0.352
24-169	0.024	0.169	0.217
20-170	0.020	0.170	0.210
45-165SS	0.046	0.170	0.262
48-170	0.048	0.170	0.266
16-171	0.016	0.171	0.203
20-170VS	0.020	0.172	0.212
37-172	0.037	0.172	0.246
16-175	0.016	0.175	0.207
30-176	0.030	0.176	0.236
40-176	0.040	0.176	0.256
50-176	0.050	0.176	0.276
56-176	0.056	0.176	0.288
68-176	0.068	0.176	0.312
104-176	0.104	0.176	0.384

Mold IDen	C/S	ID	OD (Ref)
40-180	0.040	0.180	0.260
73-182	0.073	0.182	0.328
48-185	0.048	0.185	0.281
40-184SS	0.040	0.186	0.266
31-187	0.031	0.187	0.249
50-187	0.050	0.187	0.287
70-187	0.070	0.187	0.327
139-187	0.139	0.187	0.465
62-188	0.062	0.188	0.312
35-188VS	0.035	0.190	0.260
35-190	0.035	0.190	0.260
23-191	0.023	0.191	0.237
39-189SS	0.039	0.191	0.269
55-195	0.055	0.195	0.305
70-195	0.070	0.195	0.335
25-190SS	0.025	0.196	0.246
98-197	0.098	0.197	0.393
118-197	0.118	0.197	0.433
40-200	0.040	0.200	0.280
51-199ES	0.051	0.200	0.302
122-200	0.122	0.200	0.444
28-201	0.028	0.201	0.257
23-200	0.023	0.202	0.248
70-202	0.070	0.202	0.342
59-200VS	0.060	0.203	0.323
24-205	0.024	0.205	0.253
30-208	0.030	0.208	0.268
39-208	0.039	0.208	0.286
50-208	0.050	0.208	0.308
54-210NS	0.053	0.209	0.315
33-210	0.033	0.210	0.276
40-210	0.040	0.210	0.290
45-209ES	0.045	0.210	0.300
71-210	0.071	0.210	0.352
80-208VS	0.081	0.210	0.372
90-208VS	0.091	0.210	0.392
71-211ES	0.071	0.212	0.354
28-210SS	0.028	0.213	0.269
30-212SS	0.030	0.214	0.274
33-210SS	0.034	0.214	0.282
60-215	0.060	0.215	0.335
41-216	0.041	0.216	0.298
53-216	0.053	0.216	0.322
25-218	0.025	0.218	0.268
156-218	0.156	0.218	0.530

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Mold IDen	C/S	ID	OD (Ref)
188-218	0.188	0.218	0.594
60-217ES	0.061	0.219	0.341
70-219	0.070	0.219	0.359
125-219	0.125	0.219	0.469
32-220	0.032	0.220	0.284
37-220	0.037	0.220	0.294
46-224	0.046	0.224	0.316
74-224	0.074	0.224	0.372
79-224	0.079	0.224	0.382
40-228	0.040	0.228	0.308
52-229	0.052	0.229	0.333
40-228SS	0.041	0.232	0.314
62-230SS	0.063	0.232	0.358
51-232SS	0.052	0.234	0.338
34-232SS	0.034	0.235	0.303
195-235	0.195	0.235	0.625
78-236	0.078	0.236	0.392
25-237	0.025	0.237	0.287
31-238	0.031	0.238	0.300
40-238	0.040	0.238	0.318
40-239	0.040	0.239	0.319
42-239	0.042	0.239	0.323
48-239	0.048	0.239	0.335
51-239	0.051	0.239	0.341
174-239	0.174	0.239	0.587
63-240	0.063	0.240	0.366
70-240	0.070	0.240	0.380
77-240	0.077	0.240	0.394
30-239VS	0.030	0.241	0.301
73-239SS	0.074	0.241	0.389
164-242	0.164	0.242	0.570
56-239VS	0.057	0.243	0.357
71-243	0.071	0.243	0.385
74-244	0.074	0.244	0.392
45-245	0.045	0.245	0.335
60-246	0.060	0.246	0.366
68-246	0.068	0.246	0.382
125-247	0.125	0.247	0.497
20-248	0.020	0.248	0.288
48-248	0.048	0.248	0.344
71-248	0.071	0.248	0.390
51-249	0.051	0.249	0.351
32-250	0.032	0.250	0.314
35-250	0.035	0.250	0.320
80-250	0.080	0.250	0.410

Mold IDen	C/S	ID	OD (Ref)
93-250	0.093	0.250	0.436
94-248VS	0.095	0.251	0.441
40-248SS	0.041	0.253	0.335
77-250SS	0.078	0.255	0.411
34-256	0.034	0.256	0.324
46-257	0.046	0.257	0.349
40-258	0.040	0.258	0.338
71-256VS	0.072	0.259	0.403
89-255SS	0.090	0.259	0.439
21-260	0.021	0.260	0.302
70-258SS	0.071	0.262	0.404
110-265NS	0.110	0.264	0.484
60-265	0.060	0.265	0.385
75-262SS	0.076	0.266	0.418
53-270	0.053	0.270	0.376
70-270	0.070	0.270	0.410
75-268SS	0.076	0.271	0.423
30-272SS	0.030	0.275	0.335
70-275	0.070	0.275	0.415
70-270SS	0.071	0.275	0.417
104-272VS	0.105	0.275	0.485
197-276	0.197	0.276	0.670
36-272SS	0.037	0.277	0.351
44-277	0.044	0.277	0.365
44-278	0.044	0.277	0.365
76-277	0.076	0.277	0.429
40-275SS	0.041	0.279	0.361
59-279	0.059	0.279	0.397
190-280	0.190	0.280	0.660
140-281	0.140	0.281	0.561
46-278VS	0.047	0.283	0.377
25-285	0.025	0.285	0.335
63-281SS	0.063	0.285	0.411
35-283SS	0.035	0.286	0.356
24-285VS	0.024	0.287	0.333
50-287	0.050	0.287	0.387
45-290	0.045	0.290	0.380
70-285SS	0.071	0.290	0.432
86-290	0.086	0.290	0.462
70-291	0.070	0.291	0.431
94-287VS	0.095	0.291	0.481
39-295	0.039	0.295	0.373
59-295	0.059	0.295	0.413
49-295ES	0.049	0.297	0.395
32-295VS	0.032	0.297	0.362

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Mold IDen	C/S	ID	OD (Ref)
110-299	0.110	0.299	0.519
50-300	0.050	0.300	0.400
25-301	0.025	0.301	0.351
38-301	0.038	0.301	0.377
42-301	0.042	0.301	0.385
60-301	0.060	0.301	0.421
54-301VS	0.055	0.304	0.414
71-304	0.071	0.304	0.446
20-305	0.020	0.305	0.345
108-305	0.108	0.305	0.521
34-306	0.034	0.306	0.374
52-306	0.052	0.306	0.410
46-307	0.046	0.307	0.399
35-307ES	0.035	0.308	0.378
72-309	0.072	0.309	0.453
150-310	0.150	0.310	0.610
31-312	0.031	0.312	0.374
78-312	0.078	0.312	0.468
97-312	0.097	0.312	0.506
103-312	0.103	0.312	0.518
135-312	0.135	0.312	0.582
51-313	0.051	0.313	0.415
59-311SS	0.060	0.314	0.434
36-312SS	0.036	0.315	0.387
43-315	0.043	0.315	0.401
70-313ES	0.070	0.315	0.455
45-315ES	0.045	0.317	0.407
70-313VS	0.071	0.317	0.459
74-317	0.074	0.317	0.465
63-319	0.063	0.319	0.445
70-320	0.070	0.320	0.460
35-322	0.035	0.322	0.392
63-319VS	0.064	0.322	0.450
28-320VS	0.028	0.323	0.379
35-318VS	0.036	0.323	0.395
95-320SS	0.097	0.326	0.520
103-326	0.103	0.326	0.532
125-327	0.125	0.326	0.576
39-327	0.039	0.327	0.405
90-324VS	0.091	0.328	0.510
50-330	0.050	0.330	0.430
31-332	0.031	0.332	0.394
70-334	0.070	0.334	0.474
42-335	0.042	0.335	0.419
86-336	0.086	0.336	0.508

Mold IDen	C/S	ID	OD (Ref)
60-340	0.060	0.340	0.460
285-340	0.285	0.340	0.910
79-335SS	0.081	0.341	0.503
45-346	0.045	0.346	0.436
125-348	0.125	0.348	0.598
70-344SS	0.071	0.349	0.491
74-350	0.074	0.350	0.498
28-346VS	0.028	0.351	0.407
54-344SS	0.055	0.351	0.461
118-352	0.118	0.352	0.588
125-343SS	0.126	0.352	0.604
39-354	0.039	0.354	0.432
73-357	0.073	0.357	0.503
56-355VS	0.057	0.358	0.472
156-359	0.156	0.359	0.671
59-354SS	0.060	0.360	0.480
35-361	0.035	0.361	0.431
79-354SS	0.081	0.361	0.523
35-362	0.035	0.362	0.432
210-362	0.210	0.362	0.782
45-364	0.045	0.364	0.454
80-364	0.080	0.364	0.524
62-358SS	0.063	0.365	0.491
25-356SS	0.026	0.366	0.418
87-366	0.087	0.366	0.540
104-366	0.104	0.366	0.574
52-364SS	0.052	0.367	0.471
68-364SS	0.069	0.367	0.505
71-367	0.071	0.367	0.509
74-362VS	0.075	0.367	0.517
50-366SS	0.050	0.369	0.469
80-364VS	0.081	0.369	0.531
94-366SS	0.095	0.369	0.559
40-370	0.040	0.370	0.450
60-364SS	0.061	0.370	0.492
30-368VS	0.030	0.373	0.433
70-373ES	0.070	0.374	0.514
119-374	0.119	0.374	0.612
46-375	0.046	0.375	0.467
62-375	0.062	0.375	0.499
79-370SS	0.080	0.375	0.535
93-375	0.093	0.375	0.561
106-375	0.106	0.375	0.587
125-375	0.125	0.375	0.625
180-375	0.180	0.375	0.735

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38-377	0.038	0.377	0.453
103-374VS	0.104	0.378	0.586
74-375VS	0.075	0.379	0.529
30-380	0.030	0.380	0.440
91-380	0.091	0.380	0.562
76-382	0.076	0.382	0.534
39-386	0.039	0.386	0.464
74-382SS	0.075	0.388	0.538
142-390NS	0.142	0.389	0.673
50-386SS	0.051	0.390	0.492
75-386VS	0.076	0.390	0.542
103-391	0.103	0.391	0.597
54-394	0.054	0.394	0.502
139-390	0.140	0.394	0.674
40-395	0.040	0.395	0.475
43-393ES	0.043	0.395	0.481
70-395	0.070	0.395	0.535
43-395ES	0.043	0.397	0.483
62-400	0.062	0.400	0.524
80-400	0.080	0.400	0.560
92-400	0.092	0.400	0.584
50-397SS	0.050	0.401	0.501
45-405	0.045	0.405	0.495
74-401VS	0.075	0.405	0.555
80-406	0.080	0.406	0.566
174-406	0.174	0.406	0.754
39-408	0.039	0.408	0.486
90-401SS	0.092	0.409	0.593
31-410	0.031	0.410	0.472
32-409SS	0.032	0.413	0.477
59-416ES	0.059	0.417	0.535
139-417	0.139	0.417	0.695
184-417	0.184	0.417	0.785
56-414SS	0.057	0.418	0.532
95-418	0.095	0.418	0.608
104-417VS	0.105	0.421	0.631
70-418SS	0.071	0.425	0.567
103-425	0.103	0.425	0.631
130-425	0.130	0.425	0.685
35-426	0.035	0.426	0.496
40-426	0.040	0.426	0.506
45-426	0.045	0.426	0.516
50-426	0.050	0.426	0.526
45-425ES	0.045	0.428	0.518
180-429	0.180	0.429	0.789

Mold IDen	C/S	ID	OD (Ref)
71-430	0.071	0.430	0.572
34-432	0.034	0.432	0.500
76-432	0.076	0.432	0.584
39-433	0.039	0.433	0.511
53-429SS	0.053	0.433	0.539
59-433	0.059	0.433	0.551
31-435	0.031	0.435	0.497
70-437	0.070	0.437	0.577
16-438	0.016	0.438	0.470
93-437ES	0.093	0.438	0.624
110-438	0.110	0.438	0.658
40-440	0.040	0.440	0.520
360-440	0.360	0.440	1.160
68-438SS	0.069	0.444	0.582
26-445	0.026	0.445	0.497
87-445	0.087	0.445	0.619
120-445	0.120	0.445	0.685
132-445	0.132	0.445	0.709
84-446	0.084	0.446	0.614
52-447	0.052	0.447	0.551
40-445SS	0.040	0.449	0.529
46-450	0.046	0.450	0.542
94-445VS	0.095	0.451	0.641
80-443SS	0.082	0.452	0.616
139-452	0.140	0.452	0.732
40-445RS	0.041	0.453	0.535
46-453	0.046	0.453	0.545
118-453	0.118	0.453	0.689
148-453	0.148	0.453	0.749
42-451ES	0.042	0.454	0.538
70-455	0.070	0.455	0.595
84-456	0.084	0.456	0.624
103-456	0.103	0.456	0.662
165-456	0.165	0.456	0.786
28-457	0.028	0.457	0.513
59-453VS	0.060	0.457	0.577
53-458	0.053	0.458	0.564
40-459	0.040	0.459	0.539
79-450SS	0.081	0.459	0.621
60-460	0.060	0.460	0.580
70-460	0.070	0.460	0.600
28-457VS	0.028	0.463	0.519
36-465	0.036	0.465	0.537
169-465	0.169	0.465	0.803
70-466	0.070	0.466	0.606

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Mold IDen	C/S	ID	OD (Ref)
30-468	0.030	0.468	0.528
50-468	0.050	0.468	0.568
250-469	0.250	0.469	0.969
270-470	0.270	0.470	1.010
24-472	0.024	0.472	0.520
59-472	0.059	0.472	0.590
70-468SS	0.071	0.472	0.614
160-472	0.160	0.472	0.792
79-472VS	0.079	0.476	0.634
113-477	0.113	0.477	0.703
151-477	0.151	0.477	0.779
77-468SS	0.079	0.478	0.636
50-475SS	0.050	0.480	0.580
106-480	0.106	0.480	0.692
172-480	0.172	0.480	0.824
70-478VS	0.071	0.482	0.624
40-484	0.040	0.484	0.564
121-485	0.121	0.485	0.727
105-485PL	0.106	0.487	0.699
110-487	0.110	0.487	0.707
55-489	0.055	0.489	0.599
41-490	0.041	0.490	0.572
70-487VS	0.070	0.490	0.630
39-492	0.039	0.492	0.570
104-492	0.104	0.492	0.700
71-495	0.071	0.495	0.637
30-496	0.030	0.496	0.556
47-490SS	0.048	0.496	0.592
26-492VS	0.026	0.497	0.549
43-495TS	0.043	0.497	0.583
75-489SS	0.076	0.498	0.650
93-500	0.093	0.500	0.686
125-500	0.125	0.500	0.750
234-500	0.234	0.500	0.968
243-500	0.243	0.500	0.986
70-495SS	0.071	0.503	0.645
70-505	0.070	0.505	0.645
40-504ES	0.040	0.506	0.586
40-508NS	0.040	0.506	0.586
25-507	0.025	0.507	0.557
60-507	0.060	0.507	0.627
49-508	0.049	0.508	0.606
62-501SS	0.063	0.508	0.634
70-489SS	0.073	0.508	0.654
60-507ES	0.060	0.511	0.631

Mold IDen	C/S	ID	OD (Ref)
98-512	0.098	0.512	0.708
20-515	0.020	0.515	0.555
139-515	0.140	0.515	0.795
100-520	0.100	0.520	0.720
94-523	0.094	0.523	0.711
138-523	0.138	0.523	0.799
87-524	0.087	0.524	0.698
168-524	0.168	0.524	0.860
31-526	0.031	0.526	0.588
21-524VS	0.021	0.528	0.570
70-518SS	0.072	0.529	0.673
55-530	0.055	0.530	0.640
98-520SS	0.100	0.530	0.730
59-531	0.059	0.531	0.649
71-525SS	0.072	0.533	0.677
39-535	0.039	0.535	0.613
51-531ES	0.052	0.537	0.641
113-539	0.113	0.539	0.765
51-547	0.051	0.547	0.649
40-550	0.040	0.550	0.630
112-549ES	0.112	0.550	0.774
79-551	0.079	0.551	0.709
32-551SS	0.032	0.556	0.620
32-551VS	0.032	0.557	0.621
39-550VS	0.040	0.557	0.637
51-547VS	0.052	0.557	0.661
71-557	0.071	0.557	0.699
104-557	0.104	0.557	0.765
80-551SS	0.082	0.562	0.726
109-562	0.109	0.562	0.780
39-570	0.039	0.570	0.648
106-570	0.106	0.570	0.782
32-566VS	0.032	0.571	0.635
60-575	0.060	0.575	0.695
139-576	0.139	0.576	0.854
30-577	0.030	0.577	0.637
218-578	0.218	0.578	1.014
345-580	0.345	0.580	1.270
415-580	0.415	0.580	1.410
70-583	0.070	0.583	0.723
70-575SS	0.071	0.585	0.727
20-583ES	0.020	0.587	0.627
40-583VS	0.040	0.587	0.668
79-591NS	0.079	0.589	0.747
50-590	0.050	0.590	0.690

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Mold IDen	C/S	ID	OD (Ref)
92-590	0.092	0.590	0.774
103-590	0.103	0.590	0.796
98-591	0.098	0.591	0.787
20-595	0.020	0.595	0.635
171-595	0.171	0.595	0.937
70-590VS	0.071	0.596	0.738
68-598	0.068	0.598	0.734
92-590SS	0.094	0.601	0.789
95-590SS	0.097	0.601	0.795
59-602	0.059	0.602	0.720
87-602	0.087	0.602	0.776
63-594SS	0.064	0.605	0.733
105-605	0.105	0.605	0.815
158-605	0.158	0.605	0.921
83-606	0.083	0.606	0.772
187-609	0.187	0.609	0.983
58-610	0.058	0.610	0.726
40-612	0.040	0.612	0.692
166-612	0.166	0.612	0.944
170-612	0.170	0.612	0.952
74-614	0.074	0.614	0.762
77-614	0.077	0.614	0.768
34-611ES	0.034	0.617	0.685
47-618	0.047	0.618	0.712
95-618	0.095	0.618	0.808
104-618	0.104	0.618	0.826
71-620	0.071	0.620	0.762
30-622	0.030	0.622	0.682
103-612SS	0.105	0.622	0.832
94-614SS	0.096	0.624	0.816
50-625	0.050	0.625	0.725
125-625	0.125	0.625	0.875
39-630	0.039	0.630	0.708
30-622SS	0.030	0.631	0.691
45-632	0.045	0.632	0.722
47-632	0.047	0.632	0.726
52-632	0.052	0.632	0.736
56-632	0.056	0.632	0.744
185-625SS	0.187	0.632	1.006
39-636NS	0.039	0.633	0.711
79-623SS	0.080	0.634	0.794
32-630SS	0.032	0.635	0.699
79-630SS	0.080	0.637	0.797
62-638	0.062	0.638	0.762
190-638	0.190	0.638	1.018

Mold IDen	C/S	ID	OD (Ref)
249-635SS	0.251	0.640	1.142
31-643	0.031	0.643	0.705
103-643	0.103	0.643	0.849
50-640ES	0.050	0.644	0.744
87-644	0.087	0.644	0.818
92-635SS	0.093	0.644	0.830
120-636SS	0.122	0.645	0.889
43-642SS	0.043	0.646	0.732
70-646	0.070	0.646	0.786
139-640	0.140	0.646	0.926
93-634SS	0.095	0.648	0.838
70-652	0.070	0.652	0.792
46-656	0.046	0.656	0.748
94-656	0.094	0.656	0.844
57-658	0.057	0.658	0.772
70-646SS	0.071	0.658	0.800
40-660	0.040	0.660	0.740
64-660	0.064	0.660	0.788
59-669	0.059	0.669	0.787
79-669VS	0.080	0.673	0.833
106-665VS	0.107	0.674	0.888
113-674	0.113	0.674	0.900
86-675	0.086	0.675	0.847
56-670SS	0.057	0.676	0.790
63-670SS	0.064	0.676	0.804
70-675ES	0.070	0.676	0.816
87-681	0.087	0.681	0.855
104-681	0.104	0.681	0.889
71-683	0.071	0.683	0.825
395-677SS	0.400	0.685	1.485
275-687	0.275	0.687	1.237
159-688	0.159	0.688	1.006
20-685VS	0.020	0.689	0.729
30-690	0.030	0.690	0.750
83-676SS	0.085	0.690	0.860
46-691	0.046	0.691	0.783
57-690VS	0.058	0.700	0.816
103-700	0.103	0.700	0.906
40-701	0.040	0.701	0.781
140-692SS	0.142	0.701	0.985
91-702	0.091	0.702	0.884
70-688SS	0.072	0.703	0.847
46-705	0.046	0.705	0.797
87-705	0.087	0.705	0.879
70-706	0.070	0.706	0.846



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Mold IDen	C/S	ID	OD (Ref)
138-708	0.138	0.708	0.984
118-709	0.118	0.709	0.945
75-710	0.075	0.710	0.860
50-720	0.050	0.720	0.820
70-720	0.070	0.720	0.860
157-715VS	0.159	0.722	1.040
70-724	0.070	0.724	0.864
40-725	0.040	0.725	0.805
36-732	0.036	0.730	0.802
50-720SS	0.051	0.730	0.832
158-730	0.158	0.730	1.046
103-734PL	0.103	0.734	0.940
140-741	0.104	0.734	0.942
73-735	0.073	0.735	0.881
118-728SS	0.119	0.735	0.973
70-742	0.070	0.742	0.882
104-745	0.104	0.745	0.953
70-739VS	0.071	0.748	0.890
40-750	0.040	0.750	0.830
62-750	0.062	0.750	0.874
82-750	0.082	0.750	0.914
250-750	0.250	0.750	1.250
281-750	0.281	0.750	1.312
118-748VS	0.119	0.755	0.993
70-739SS	0.072	0.760	0.904
87-760	0.087	0.760	0.934
100-760	0.100	0.760	0.960
98-765	0.098	0.765	0.961
139-765	0.139	0.765	1.043
178-767	0.178	0.767	1.123
103-768	0.103	0.768	0.974
70-769	0.070	0.769	0.909
80-758SS	0.081	0.769	0.931
91-760SS	0.093	0.773	0.959
31-779	0.031	0.779	0.841
40-785	0.040	0.785	0.865
47-780SS	0.048	0.788	0.884
98-787ES	0.098	0.789	0.985
155-790	0.155	0.790	1.100
45-787VS	0.045	0.794	0.884
104-787VS	0.105	0.794	1.004
118-787VS	0.119	0.794	1.032
80-796	0.080	0.796	0.956
49-782SS	0.050	0.797	0.897
176-787SS	0.179	0.799	1.157

Mold IDen	C/S	ID	OD (Ref)
210-799	0.210	0.799	1.219
63-799VS	0.064	0.807	0.935
104-809	0.104	0.809	1.017
71-810	0.071	0.810	0.952
118-795SS	0.120	0.810	1.050
30-810ES	0.030	0.812	0.872
63-813	0.063	0.813	0.939
156-800SS	0.159	0.813	1.131
103-814	0.103	0.814	1.020
223-813SS	0.224	0.815	1.263
87-817	0.087	0.817	0.991
40-820	0.040	0.820	0.900
40-825	0.040	0.825	0.905
150-825	0.150	0.825	1.125
125-827	0.125	0.827	1.077
30-840	0.030	0.840	0.900
185-840	0.185	0.840	1.210
59-836SS	0.059	0.841	0.959
156-837ES	0.157	0.842	1.156
104-835VS	0.105	0.843	1.053
156-844	0.156	0.844	1.156
406-844	0.406	0.844	1.656
103-850	0.103	0.848	1.054
45-850	0.045	0.850	0.940
70-831SS	0.072	0.850	0.994
68-843SS	0.069	0.856	0.994
150-850VS	0.151	0.856	1.158
70-850VS	0.071	0.858	1.000
158-855SS	0.159	0.858	1.176
135-859	0.135	0.859	1.129
275-859	0.275	0.859	1.409
32-860	0.032	0.860	0.924
80-850SS	0.081	0.860	1.022
52-864	0.052	0.864	0.968
59-866	0.059	0.866	0.984
70-843SSS	0.072	0.866	1.010
70-868	0.070	0.868	1.008
197-866	0.198	0.869	1.265
79-866ES	0.079	0.870	1.028
104-870	0.104	0.870	1.078
90-854SS	0.092	0.872	1.056
118-866SS	0.119	0.873	1.111
50-875	0.050	0.875	0.975
203-875	0.203	0.875	1.281
312-875	0.312	0.875	1.499

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71-876	0.071	0.876	1.018
40-879	0.040	0.879	0.959
70-879ES	0.070	0.882	1.022
150-886	0.150	0.886	1.186
190-870SS	0.194	0.887	1.275
156-875SS	0.159	0.889	1.207
80-880SS	0.081	0.893	1.055
70-879SS	0.071	0.896	1.038
31-898	0.031	0.898	0.960
125-900	0.125	0.900	1.150
47-894SS	0.048	0.903	0.999
59-905	0.059	0.905	1.023
141-905	0.141	0.905	1.187
83-906	0.083	0.906	1.072
52-910	0.052	0.910	1.014
31-915	0.031	0.915	0.977
54-908SS	0.055	0.917	1.027
123-924	0.123	0.924	1.170
81-925	0.081	0.925	1.087
72-926	0.072	0.926	1.070
40-929	0.040	0.929	1.009
114-929	0.114	0.929	1.157
40-930	0.040	0.930	1.010
88-910SS	0.090	0.931	1.111
104-933	0.104	0.933	1.141
71-935	0.071	0.935	1.077
321-937	0.321	0.937	1.579
141-938	0.141	0.938	1.220
195-938	0.195	0.938	1.328
103-940	0.103	0.940	1.146
70-943	0.070	0.943	1.083
24-945	0.024	0.945	0.993
79-945	0.079	0.945	1.103
275-945	0.275	0.945	1.495
40-950	0.040	0.950	1.030
215-950	0.215	0.950	1.380
118-953	0.118	0.953	1.189
139-953	0.139	0.953	1.231
156-938SS	0.158	0.953	1.269
59-945SS	0.060	0.954	1.074
300-957	0.300	0.957	1.557
35-950SS	0.035	0.959	1.029
125-950SS	0.126	0.960	1.212
63-962	0.063	0.962	1.088
55-690VS	0.055	0.965	1.075

Mold IDen	C/S	ID	OD (Ref)
35-964ES	0.035	0.967	1.037
176-975	0.176	0.975	1.327
235-975	0.235	0.975	1.445
46-967VS	0.046	0.976	1.068
63-970ES	0.064	0.979	1.107
250-980	0.250	0.980	1.480
50-984	0.050	0.984	1.084
79-984	0.079	0.984	1.142
100-984	0.100	0.984	1.184
140-988	0.140	0.988	1.268
197-984VS	0.198	0.988	1.384
58-989	0.058	0.989	1.105
45-990	0.045	0.990	1.080
70-985SS	0.071	0.992	1.134
30-980SS	0.030	0.994	1.054
32-995	0.032	0.995	1.059
71-998	0.071	0.998	1.140
55-1.000	0.055	1.000	1.110
141-1.005	0.141	1.005	1.287
46-1.000SS	0.046	1.007	1.099
80-1.000SS	0.080	1.010	1.170
59-1.012	0.059	1.012	1.130
103-1.008ES	0.104	1.014	1.222
39-1.010ES	0.039	1.015	1.093
156-1.000SS	0.159	1.016	1.334
70-1.015ES	0.070	1.017	1.157
30-1.010VS	0.030	1.019	1.079
174-1.020	0.174	1.020	1.368
65-1.030	0.065	1.030	1.160
47-1.024SS	0.048	1.034	1.130
32-1.039	0.032	1.039	1.103
40-1.040	0.040	1.040	1.120
93-1.040	0.093	1.040	1.226
32-1.050	0.032	1.050	1.114
275-1.050	0.275	1.050	1.600
60-1.051	0.060	1.051	1.171
250-1.062NS	0.249	1.056	1.554
213-1.057	0.213	1.057	1.483
104-1.059	0.104	1.059	1.267
71-1.061	0.071	1.061	1.203
40-1.062	0.040	1.062	1.142
63-1.063	0.063	1.063	1.189
79-1.063	0.079	1.063	1.221
98-1.063	0.098	1.063	1.259
71-1.046SS	0.072	1.065	1.209

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93-1.065	0.093	1.065	1.251
212-1.060VS	0.213	1.065	1.491
39-1.063VS	0.039	1.069	1.147
62-1.069	0.062	1.069	1.193
31-1.071	0.031	1.071	1.133
176-1.077	0.176	1.077	1.429
26-1.080	0.026	1.080	1.132
72-1.081	0.072	1.081	1.225
37-1.080	0.037	1.082	1.156
40-1.086	0.040	1.086	1.166
90-1.091SS	0.090	1.087	1.267
187-1.088	0.187	1.088	1.462
32-1.100	0.032	1.100	1.164
70-1.082SS	0.071	1.100	1.242
176-1.100	0.176	1.100	1.452
275-1.100	0.275	1.100	1.650
43-1.101	0.043	1.101	1.187
78-1.102	0.078	1.102	1.258
157-1.102	0.157	1.102	1.416
229-1.099SS	0.230	1.103	1.563
40-1.105	0.040	1.105	1.185
167-1.105	0.167	1.105	1.439
158-1.105SS	0.159	1.109	1.427
25-1.110	0.025	1.110	1.160
43-1.101SS	0.043	1.110	1.196
212-1.111	0.212	1.111	1.535
81-1.114	0.081	1.114	1.276
275-1.100VS	0.275	1.114	1.664
25-1.115	0.025	1.115	1.165
140-1.119	0.140	1.119	1.399
145-1.109VS	0.146	1.119	1.411
36-1.118	0.036	1.120	1.192
374-1.102VS	0.380	1.121	1.881
104-1.125	0.104	1.125	1.333
40-1.116VS	0.040	1.126	1.206
118-1.121ES	0.119	1.129	1.367
49-1.130	0.049	1.130	1.228
70-1.114SS	0.071	1.130	1.272
151-1.138	0.151	1.138	1.440
70-1.135ES	0.070	1.141	1.281
149-1.136SS	0.149	1.147	1.445
215-1.147	0.215	1.147	1.577
56-1.148	0.056	1.148	1.260
46-1.130SS	0.047	1.149	1.243
45-1.153	0.045	1.153	1.243

Mold IDen	C/S	ID	OD (Ref)
54-1.153	0.054	1.153	1.261
176-1.156	0.176	1.156	1.508
193-1.158	0.193	1.158	1.544
65-1.140SS	0.066	1.159	1.291
114-1.165	0.114	1.165	1.393
69-1.157VS	0.070	1.168	1.308
125-1.160ES	0.126	1.168	1.420
60-1.173	0.060	1.173	1.293
62-1.176	0.062	1.176	1.300
140-1.176	0.140	1.176	1.456
149-1.180	0.149	1.180	1.478
28-1.181	0.028	1.181	1.237
210-1.187	0.210	1.187	1.607
71-1.188	0.071	1.188	1.330
76-1.188	0.076	1.188	1.340
94-1.188	0.094	1.188	1.376
39-1.189	0.039	1.189	1.267
30-1.190	0.030	1.190	1.250
157-1.181	0.158	1.191	1.507
52-1.176SS	0.053	1.194	1.300
210-1.200	0.210	1.200	1.620
60-1.214NS	0.060	1.205	1.325
60-1.203ES	0.060	1.212	1.332
47-1.201SS	0.048	1.213	1.309
149-1.213	0.149	1.213	1.511
60-1.190SS	0.060	1.214	1.334
40-1.220	0.040	1.220	1.300
157-1.220	0.157	1.220	1.534
300-1.220	0.300	1.220	1.820
70-1.220ES	0.070	1.222	1.362
104-1.222	0.104	1.222	1.430
173-1.225	0.173	1.225	1.571
176-1.225	0.176	1.225	1.577
275-1.225	0.275	1.225	1.775
31-1.226	0.031	1.226	1.288
141-1.226	0.141	1.226	1.508
197-1.230	0.197	1.230	1.624
31-1.226ES	0.031	1.232	1.294
78-1.234	0.078	1.234	1.390
176-1.236	0.176	1.236	1.588
212-1.237	0.212	1.237	1.661
54-1.228SS	0.055	1.240	1.350
250-1.240	0.250	1.240	1.740
52-1.245	0.052	1.245	1.349
140-1.246	0.140	1.246	1.526

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104-1.249	0.104	1.249	1.457
50-1.250	0.050	1.250	1.350
71-1.251	0.071	1.251	1.393
70-1.240VS	0.071	1.255	1.397
281-1.250NS	0.282	1.256	1.820
47-1.245SS	0.047	1.257	1.351
53-1.257	0.053	1.257	1.363
92-1.259	0.092	1.259	1.443
210-1.260	0.210	1.260	1.680
40-1.249VS	0.040	1.261	1.341
70-1.240SS	0.072	1.267	1.411
65-1.262ES	0.065	1.268	1.398
30-1.272	0.030	1.272	1.332
60-1.274	0.060	1.274	1.394
120-1.280	0.120	1.280	1.520
139-1.265SS	0.141	1.283	1.565
39-1.290	0.039	1.290	1.368
55-1.290	0.055	1.290	1.400
71-1.280VS	0.072	1.293	1.437
70-1.281SS	0.071	1.301	1.443
60-1.304	0.060	1.304	1.424
40-1.310	0.040	1.310	1.390
104-1.311	0.104	1.311	1.519
71-1.314	0.071	1.314	1.456
50-1.325	0.050	1.325	1.425
93-1.320SS	0.094	1.330	1.518
31-1.331	0.031	1.331	1.393
210-1.335	0.210	1.334	1.754
40-1.310SS	0.041	1.335	1.417
92-1.338	0.092	1.338	1.522
39-1.340	0.039	1.340	1.418
45-1.340	0.045	1.340	1.430
176-1.350	0.176	1.350	1.702
237-1.347SS	0.238	1.352	1.828
215-1.364	0.215	1.364	1.794
140-1.365	0.140	1.365	1.645
80-1.370	0.080	1.370	1.530
40-1.350SS	0.041	1.371	1.453
213-1.372	0.213	1.372	1.798
48-1.375	0.048	1.375	1.471
259-1.375	0.259	1.375	1.893
70-1.370ES	0.070	1.376	1.516
30-1.377ES	0.030	1.379	1.439
210-1.373VS	0.211	1.379	1.801
157-1.388SS	0.156	1.380	1.692

Mold IDen	C/S	ID	OD (Ref)
148-1.385	0.148	1.385	1.681
71-1.387	0.071	1.387	1.529
77-1.362VS	0.078	1.387	1.543
45-1.395	0.045	1.395	1.485
70-1.378VS	0.071	1.397	1.539
180-1.402	0.180	1.402	1.762
264-1.406	0.264	1.406	1.934
286-1.407	0.286	1.407	1.979
63-1.394SS	0.064	1.408	1.536
60-1.403ES	0.060	1.410	1.530
299-1.410	0.299	1.410	2.008
50-1.406	0.050	1.411	1.511
90-1.387SS	0.092	1.411	1.595
75-1.414	0.075	1.414	1.564
60-1.415	0.060	1.415	1.535
93-1.415	0.093	1.415	1.601
78-1.417	0.078	1.417	1.573
50-1.420	0.050	1.420	1.520
70-1.424	0.070	1.424	1.564
111-1.424	0.111	1.424	1.646
98-1.417VS	0.099	1.426	1.624
70-1.427	0.070	1.427	1.567
140-1.434	0.140	1.434	1.714
39-1.437	0.039	1.437	1.515
94-1.437	0.094	1.437	1.625
250-1.438	0.250	1.438	1.938
430-1.438	0.430	1.438	2.298
105-1.452	0.105	1.452	1.662
47-1.453	0.047	1.453	1.547
70-1.437SS	0.071	1.454	1.596
168-1.460	0.168	1.460	1.796
70-1.465	0.070	1.465	1.605
79-1.457ES	0.080	1.466	1.626
65-1.465ES	0.065	1.472	1.602
176-1.475	0.176	1.475	1.827
39-1.476	0.039	1.476	1.554
144-1.484	0.144	1.484	1.772
38-1.463SS	0.039	1.485	1.563
62-1.485	0.062	1.485	1.609
234-1.485	0.234	1.485	1.953
63-1.472ES	0.064	1.486	1.614
81-1.489	0.081	1.489	1.651
31-1.491	0.031	1.491	1.553
140-1.491	0.140	1.491	1.771
74-1.489ES	0.074	1.493	1.641

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138-1.491ES	0.138	1.493	1.769
234-1.493	0.234	1.493	1.961
50-1.500	0.050	1.500	1.600
55-1.500	0.055	1.500	1.610
437-1.500	0.437	1.500	2.374
500-1.500	0.500	1.500	2.500
47-1.484SS	0.048	1.501	1.597
104-1.501	0.104	1.501	1.709
45-1.510	0.045	1.510	1.600
71-1.510	0.071	1.510	1.652
125-1.515	0.125	1.515	1.765
231-1.500VS	0.234	1.519	1.987
56-1.506SS	0.057	1.520	1.634
114-1.520	0.114	1.520	1.748
59-1.535	0.059	1.535	1.653
50-1.527ES	0.050	1.536	1.636
210-1.537	0.210	1.537	1.957
45-1.540	0.045	1.540	1.630
70-1.545	0.070	1.545	1.685
139-1.546	0.139	1.546	1.824
92-1.550	0.092	1.550	1.734
176-1.550	0.176	1.550	1.902
55-1.560	0.055	1.560	1.670
250-1.562	0.250	1.562	2.062
118-1.543VS	0.119	1.563	1.801
32-1.559SS	0.032	1.574	1.638
67-1.541SS	0.068	1.574	1.710
47-1.575	0.047	1.575	1.669
125-1.575	0.125	1.575	1.825
157-1.575	0.157	1.575	1.889
76-1.580	0.076	1.580	1.732
118-1.583SS	0.119	1.593	1.831
312-1.594	0.312	1.594	2.218
225-1.595PL	0.225	1.595	2.045
45-1.600	0.045	1.600	1.690
176-1.600	0.176	1.600	1.952
180-1.600	0.180	1.600	1.960
118-1.595VS	0.119	1.602	1.840
237-1.597SS	0.238	1.603	2.079
78-1.609	0.078	1.609	1.765
140-1.616	0.140	1.616	1.896
212-1.616	0.212	1.616	2.040
59-1.623	0.059	1.623	1.741
375-1.625	0.375	1.625	2.375
104-1.628	0.104	1.628	1.836

Mold IDen	C/S	ID	OD (Ref)
71-1.629	0.071	1.629	1.771
141-1.629	0.141	1.629	1.911
70-1.614SS	0.071	1.634	1.776
29-1.620SS	0.029	1.635	1.693
30-1.635	0.030	1.635	1.695
103-1.612SS	0.105	1.637	1.847
73-1.639	0.073	1.639	1.785
45-1.650	0.045	1.650	1.740
275-1.655	0.275	1.655	2.205
250-1.660	0.250	1.660	2.160
70-1.662	0.070	1.662	1.802
70-1.670	0.070	1.670	1.810
47-1.672	0.047	1.672	1.766
108-1.674	0.108	1.674	1.890
50-1.675	0.050	1.675	1.775
107-1.675	0.107	1.675	1.889
93-1.689NS	0.093	1.685	1.871
62-1.686	0.062	1.686	1.810
70-1.687	0.070	1.687	1.827
70-1.690NS	0.070	1.687	1.827
125-1.688	0.125	1.688	1.938
118-1.673VS	0.119	1.689	1.927
50-1.690	0.050	1.690	1.790
750-1.690	0.750	1.690	3.190
167-1.693	0.167	1.693	2.027
29-1.692SS	0.029	1.709	1.767
103-1.718	0.103	1.718	1.924
357-1.719	0.357	1.719	2.433
31-1.718	0.031	1.724	1.786
176-1.725	0.176	1.725	2.077
39-1.732	0.039	1.732	1.810
59-1.732	0.059	1.732	1.850
62-1.740	0.062	1.740	1.864
285-1.735VS	0.286	1.741	2.313
93-1.750	0.093	1.744	1.930
225-1.745	0.225	1.745	2.195
176-1.747	0.176	1.747	2.099
140-1.750	0.140	1.750	2.030
250-1.750	0.250	1.750	2.250
275-1.745VS	0.276	1.751	2.303
104-1.754	0.104	1.754	1.962
114-1.756	0.114	1.756	1.984
70-1.738VS	0.071	1.761	1.903
62-1.772	0.062	1.772	1.896
79-1.772	0.079	1.772	1.930

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98-1.772	0.098	1.772	1.968
210-1.772	0.210	1.772	2.192
50-1.764ES	0.050	1.774	1.874
50-1.750SS	0.051	1.775	1.877
55-1.775	0.055	1.775	1.885
70-1.775	0.070	1.775	1.915
39-1.772SS	0.039	1.787	1.865
210-1.787	0.210	1.787	2.207
32-1.790	0.032	1.790	1.854
139-1.790	0.139	1.790	2.068
50-1.796	0.050	1.796	1.896
70-1.799	0.070	1.799	1.939
46-1.800	0.046	1.807	1.899
104-1.808	0.104	1.808	2.016
103-1.812	0.103	1.812	2.018
125-1.812	0.125	1.812	2.062
40-1.828	0.040	1.828	1.908
70-1.830	0.070	1.830	1.970
75-1.840	0.075	1.840	1.990
237-1.848	0.237	1.848	2.322
79-1.850	0.079	1.850	2.008
176-1.850	0.176	1.850	2.202
40-1.856	0.040	1.856	1.936
40-1.860	0.040	1.860	1.940
250-1.860	0.250	1.860	2.360
50-1.864	0.050	1.864	1.964
235-1.845SS	0.238	1.869	2.345
500-1.875	0.500	1.875	2.875
140-1.878	0.140	1.878	2.158
93-1.888	0.093	1.888	2.074
119-1.888	0.119	1.888	2.126
47-1.891	0.047	1.891	1.985
70-1.864SS	0.071	1.900	2.042
375-1.906	0.375	1.906	2.656
103-1.889SS	0.104	1.909	2.117
93-1.888ES	0.094	1.910	2.098
210-1.912	0.210	1.912	2.332
80-1.921	0.080	1.921	2.081
70-1.927	0.070	1.927	2.067
43-1.934	0.043	1.934	2.020
47-1.934	0.047	1.934	2.028
450-1.937	0.450	1.937	2.837
104-1.943	0.104	1.943	2.151
125-1.950	0.125	1.950	2.200
210-1.950	0.210	1.950	2.370

Mold IDen	C/S	ID	OD (Ref)
40-1.958	0.040	1.958	2.038
224-1.941VS	0.226	1.959	2.411
47-1.954	0.047	1.961	2.055
47-1.954SS	0.047	1.961	2.055
125-1.968	0.125	1.967	2.217
103-1.968	0.103	1.968	2.174
157-1.968	0.157	1.968	2.282
176-1.944SS	0.178	1.968	2.324
39-1.969	0.039	1.969	2.047
63-1.969	0.063	1.969	2.095
176-1.975	0.176	1.975	2.327
210-1.975PL	0.210	1.975	2.395
147-1.976	0.147	1.976	2.270
39-1.969SS	0.039	1.977	2.055
38-1.984	0.038	1.984	2.060
38-1.980ES	0.038	1.985	2.061
118-1.969SS	0.119	1.986	2.224
211-1.989	0.211	1.989	2.411
282-1.986VS	0.283	1.995	2.561
139-1.954SS	0.142	1.996	2.280
60-1.993ES	0.060	1.998	2.118
25-2.000	0.025	2.000	2.050
80-2.000	0.080	2.000	2.160
156-2.000	0.156	2.000	2.312
140-2.003	0.140	2.003	2.283
71-2.014	0.071	2.014	2.156
60-1.993SS	0.061	2.021	2.143
285-2.027	0.285	2.027	2.597
335-2.027	0.335	2.027	2.697
105-2.028	0.105	2.028	2.238
70-2.030	0.070	2.030	2.170
101-2.015SS	0.102	2.030	2.234
139-2.046	0.139	2.046	2.324
70-2.050	0.070	2.050	2.190
224-2.052	0.224	2.052	2.500
70-2.057ES	0.070	2.060	2.200
75-2.066	0.075	2.066	2.216
50-2.070	0.050	2.070	2.170
93-2.065VS	0.093	2.070	2.256
243-2.060VS	0.245	2.077	2.567
176-2.085	0.176	2.085	2.437
40-2.044SS	0.041	2.087	2.169
36-2.050SS	0.037	2.089	2.163
176-2.100	0.176	2.100	2.452
70-2.093SS	0.070	2.102	2.242

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108-2.100VS	0.109	2.117	2.335
47-2.115SS	0.047	2.124	2.218
70-2.124	0.070	2.124	2.264
78-2.125	0.078	2.125	2.281
187-2.125	0.187	2.125	2.499
59-2.126	0.059	2.126	2.244
140-2.131	0.140	2.131	2.411
158-2.126ES	0.159	2.137	2.455
79-2.135ES	0.079	2.140	2.298
125-2.140	0.125	2.140	2.390
47-2.141	0.047	2.141	2.235
47-2.141ES	0.047	2.146	2.240
40-2.152	0.040	2.152	2.232
70-2.156	0.070	2.156	2.296
210-2.162	0.210	2.162	2.582
176-2.145VS	0.178	2.169	2.525
70-2.175	0.070	2.175	2.315
40-2.177	0.040	2.177	2.257
62-2.187	0.062	2.187	2.311
185-2.187	0.185	2.187	2.557
70-2.175VS	0.071	2.195	2.337
42-2.199	0.042	2.199	2.283
250-2.200	0.250	2.200	2.700
118-2.175VS	0.119	2.201	2.439
176-2.225	0.176	2.225	2.577
83-2.226	0.083	2.226	2.392
114-2.228	0.114	2.228	2.456
245-2.235	0.245	2.235	2.725
215-2.231ES	0.216	2.241	2.673
40-2.249	0.040	2.249	2.329
70-2.249	0.070	2.249	2.389
70-2.250	0.070	2.250	2.390
125-2.250	0.125	2.250	2.500
275-2.250	0.275	2.250	2.800
625-2.250	0.625	2.250	3.500
187-2.272	0.187	2.272	2.646
93-2.277	0.093	2.277	2.463
98-2.283	0.098	2.283	2.479
60-2.287	0.060	2.287	2.407
79-2.283ES	0.080	2.304	2.464
312-2.312	0.311	2.304	2.926
70-2.307	0.070	2.307	2.447
375-2.335NS	0.372	2.319	3.063
168-2.328	0.168	2.328	2.664
103-2.340	0.103	2.340	2.546

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40-2.342	0.040	2.342	2.422
118-2.342	0.118	2.342	2.578
47-2.350	0.047	2.350	2.444
176-2.350	0.176	2.350	2.702
313-2.350	0.313	2.350	2.976
79-2.362	0.079	2.362	2.520
217-2.362	0.217	2.362	2.796
224-2.362	0.224	2.362	2.810
215-2.373	0.215	2.373	2.803
187-2.375	0.187	2.375	2.749
375-2.375	0.375	2.375	3.125
140-2.381	0.140	2.381	2.661
275-2.385	0.275	2.385	2.935
394-2.362SS	0.397	2.385	3.179
281-2.391	0.281	2.391	2.953
53-2.394	0.053	2.394	2.500
500-2.375SS	0.505	2.397	3.407
17-2.400	0.017	2.400	2.434
40-2.400	0.040	2.400	2.480
150-2.400	0.150	2.400	2.700
319-2.411	0.319	2.411	3.049
70-2.425	0.070	2.425	2.565
139-2.425	0.139	2.425	2.703
70-2.440	0.070	2.440	2.580
70-2.440	0.070	2.447	2.587
70-2.410SS	0.071	2.447	2.589
103-2.450	0.103	2.450	2.656
238-2.458	0.238	2.458	2.934
179-2.459	0.179	2.459	2.817
260-2.476	0.260	2.473	2.993
176-2.475	0.176	2.475	2.827
30-2.472SS	0.030	2.482	2.542
108-2.487	0.108	2.487	2.703
282-2.490VS	0.283	2.499	3.065
105-2.500	0.105	2.500	2.710
375-2.500	0.375	2.500	3.250
79-2.480SS	0.080	2.508	2.668
32-2.500SS	0.032	2.524	2.588
47-2.495SS	0.048	2.524	2.620
50-2.520VS	0.050	2.534	2.634
40-2.550	0.040	2.550	2.630
118-2.520VS	0.120	2.551	2.791
70-2.560	0.070	2.560	2.700
187-2.562	0.187	2.562	2.936
176-2.534SS	0.179	2.573	2.931

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Mold IDen	C/S	ID	OD (Ref)
80-2.585	0.080	2.585	2.745
209-2.587	0.209	2.587	3.005
209-2.592	0.209	2.592	3.010
118-2.584ES	0.119	2.596	2.834
176-2.596	0.176	2.596	2.948
139-2.601	0.139	2.601	2.879
375-2.608	0.375	2.608	3.358
176-2.600SS	0.178	2.622	2.978
375-2.625	0.375	2.625	3.375
70-2.627	0.070	2.627	2.767
144-2.629	0.144	2.629	2.917
104-2.637	0.104	2.637	2.845
47-2.641	0.047	2.641	2.735
48-2.666	0.048	2.666	2.762
71-2.638VS	0.072	2.666	2.810
139-2.671	0.139	2.671	2.949
70-2.677	0.070	2.677	2.817
115-2.683	0.115	2.683	2.913
84-2.661SS	0.085	2.702	2.872
70-2.690VS	0.071	2.715	2.857
50-2.719	0.050	2.719	2.819
176-2.725	0.176	2.725	3.077
250-2.725	0.250	2.725	3.225
103-2.675SS	0.105	2.726	2.936
250-2.750	0.250	2.750	3.250
70-2.750ES	0.070	2.754	2.894
330-2.755	0.330	2.755	3.415
63-2.766	0.063	2.766	2.892
268-2.763	0.268	2.767	3.303
176-2.725VS	0.179	2.769	3.127
125-2.750SS	0.126	2.776	3.028
125-2.756SS	0.126	2.782	3.034
70-2.739SS	0.071	2.792	2.934
70-2.800	0.070	2.800	2.940
312-2.812	0.311	2.803	3.425
103-2.830	0.103	2.830	3.036
90-2.832	0.090	2.832	3.012
59-2.835ES	0.059	2.839	2.957
176-2.850	0.176	2.850	3.202
148-2.859	0.148	2.859	3.155
157-2.835VS	0.158	2.859	3.175
141-2.874	0.141	2.874	3.156
40-2.875	0.040	2.875	2.955
85-2.875	0.085	2.875	3.045
375-2.875	0.375	2.875	3.625

Mold IDen	C/S	ID	OD (Ref)
437-2.875	0.437	2.875	3.749
312-2.875SS	0.315	2.905	3.535
118-2.913	0.118	2.913	3.149
78-2.919	0.078	2.919	3.075
70-2.921	0.070	2.921	3.061
197-2.921	0.197	2.921	3.315
177-2.925	0.177	2.925	3.279
375-2.930	0.375	2.930	3.680
103-2.935ES	0.103	2.932	3.138
147-2.935	0.147	2.935	3.229
224-2.925	0.226	2.945	3.397
79-2.943ES	0.079	2.950	3.108
70-2.950ES	0.070	2.954	3.094
152-2.965	0.152	2.965	3.269
176-2.975	0.176	2.975	3.327
370-2.982	0.370	2.982	3.722
140-2.997	0.140	2.997	3.277
40-3.000	0.040	3.000	3.080
103-3.000	0.103	3.000	3.206
220-2.975VS	0.222	3.003	3.447
140-3.018	0.140	3.018	3.298
130-3.062	0.130	3.062	3.322
70-3.085	0.070	3.085	3.225
158-3.071ES	0.159	3.086	3.404
83-3.083	0.083	3.087	3.253
176-3.100	0.176	3.100	3.452
103-3.109	0.103	3.109	3.315
47-3.053SS	0.048	3.112	3.208
176-3.115	0.176	3.115	3.467
44-3.038SS	0.045	3.122	3.212
140-3.123	0.140	3.123	3.403
118-3.130	0.118	3.130	3.366
330-3.137	0.330	3.137	3.797
30-3.145	0.030	3.145	3.205
70-3.114VS	0.071	3.146	3.288
103-3.147	0.103	3.147	3.353
141-3.150	0.141	3.150	3.432
60-3.156	0.060	3.156	3.276
310-3.136SS	0.313	3.165	3.791
214-3.166	0.214	3.166	3.594
60-3.115SS	0.061	3.175	3.297
103-3.185SS	0.104	3.222	3.430
176-3.225	0.176	3.225	3.577
40-3.200SS	0.040	3.230	3.310
65-3.239	0.065	3.239	3.369



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Mold IDen	C/S	ID	OD (Ref)
140-3.248	0.140	3.248	3.528
250-3.250	0.250	3.250	3.750
170-3.253	0.170	3.253	3.593
212-3.255	0.212	3.255	3.679
79-3.218VS	0.080	3.257	3.417
185-3.260	0.185	3.260	3.630
71-3.269	0.071	3.269	3.411
141-3.282	0.141	3.282	3.564
103-3.290	0.103	3.290	3.496
275-3.252SS	0.279	3.299	3.857
87-3.307	0.087	3.307	3.481
187-3.312	0.187	3.312	3.686
312-3.300SS	0.315	3.331	3.961
375-3.325SS	0.377	3.346	4.100
176-3.350	0.176	3.350	3.702
103-3.359	0.103	3.359	3.565
103-3.362	0.103	3.362	3.568
211-3.366	0.211	3.366	3.788
70-3.376NS	0.070	3.369	3.509
140-3.374	0.140	3.374	3.654
80-3.375	0.080	3.375	3.535
203-3.375	0.204	3.384	3.792
103-3.400	0.103	3.400	3.606
40-3.370VS	0.040	3.402	3.482
103-3.410ES	0.103	3.415	3.621
111-3.422	0.111	3.422	3.644
70-3.440	0.070	3.440	3.580
152-3.420VS	0.153	3.449	3.755
46-3.455	0.046	3.455	3.547
103-3.460ES	0.103	3.469	3.675
70-3.474	0.070	3.474	3.614
176-3.475	0.176	3.475	3.827
300-3.475	0.300	3.475	4.075
80-3.500	0.080	3.500	3.660
140-3.500	0.140	3.500	3.780
156-3.500	0.156	3.500	3.812
500-3.500	0.500	3.500	4.500
84-3.506	0.084	3.506	3.674
80-3.483VS	0.081	3.509	3.671
179-3.522	0.178	3.510	3.866
104-3.520	0.104	3.520	3.728
122-3.520	0.122	3.520	3.764
230-3.475VS	0.233	3.521	3.987
71-3.523	0.071	3.523	3.665
70-3.562	0.070	3.562	3.702

Mold IDen	C/S	ID	OD (Ref)
125-3.562	0.125	3.562	3.812
248-3.575	0.248	3.575	4.071
125-3.543SS	0.127	3.597	3.851
75-3.600	0.075	3.600	3.750
176-3.600	0.176	3.600	3.952
103-3.612	0.103	3.612	3.818
256-3.563SS	0.260	3.614	4.134
375-3.622	0.375	3.622	4.372
140-3.625	0.140	3.625	3.905
212-3.635	0.212	3.635	4.059
125-3.640	0.125	3.640	3.890
210-3.640	0.210	3.640	4.060
212-3.641	0.212	3.641	4.065
58-3.645	0.058	3.645	3.761
147-3.656	0.147	3.656	3.950
50-3.670	0.050	3.661	3.761
90-3.661	0.090	3.661	3.841
500-3.675	0.500	3.675	4.675
210-3.640SS	0.212	3.678	4.102
50-3.670SS	0.050	3.704	3.804
224-3.724	0.224	3.724	4.172
176-3.725	0.176	3.725	4.077
150-3.734	0.150	3.734	4.034
95-3.744	0.095	3.744	3.934
140-3.757	0.140	3.757	4.037
71-3.776	0.071	3.776	3.918
158-3.780ES	0.159	3.799	4.117
118-3.819	0.118	3.819	4.055
125-3.750SS	0.127	3.824	4.078
103-3.837	0.103	3.837	4.043
281-3.844	0.281	3.844	4.406
70-3.833ES	0.070	3.845	3.985
176-3.850	0.176	3.850	4.202
400-3.850	0.400	3.850	4.650
70-3.840ES	0.070	3.851	3.991
150-3.859	0.150	3.859	4.159
70-3.860	0.070	3.860	4.000
140-3.876	0.140	3.876	4.156
103-3.875	0.103	3.891	4.097
139-3.910	0.139	3.910	4.188
70-3.937	0.070	3.937	4.077
500-3.937	0.500	3.937	4.937
103-3.862	0.105	3.938	4.148
176-3.975	0.176	3.975	4.327
156-3.984	0.156	3.984	4.296

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Mold IDen	C/S	ID	OD (Ref)
375-4.006	0.375	4.006	4.756
140-4.008	0.140	4.008	4.288
139-4.046	0.139	4.036	4.314
139-4.020SS	0.140	4.037	4.317
103-4.093	0.103	4.093	4.299
224-4.098	0.224	4.098	4.546
176-4.100	0.176	4.100	4.452
186-4.095SS	0.186	4.107	4.479
103-4.109	0.103	4.109	4.315
125-4.109	0.125	4.109	4.359
140-4.127	0.140	4.127	4.407
118-4.134	0.118	4.134	4.370
155-4.139	0.155	4.139	4.449
70-4.107SS	0.071	4.147	4.289
103-4.150	0.103	4.150	4.356
103-4.169	0.103	4.169	4.375
70-4.180NS	0.070	4.172	4.312
103-4.175	0.103	4.175	4.381
40-4.140VS	0.040	4.179	4.259
103-4.204ES	0.103	4.215	4.421
140-4.125SS	0.143	4.216	4.502
176-4.225	0.176	4.225	4.577
83-4.226	0.083	4.226	4.392
375-4.250	0.374	4.244	4.992
103-4.256	0.103	4.256	4.462
140-4.274	0.140	4.274	4.554
375-4.250VS	0.379	4.294	5.052
150-4.295	0.150	4.295	4.595
70-4.300	0.070	4.300	4.440
210-4.304	0.210	4.304	4.724
103-4.300ES	0.103	4.311	4.517
139-4.300ES	0.139	4.311	4.589
111-4.322	0.111	4.322	4.544
215-4.331	0.215	4.331	4.761
47-4.343	0.047	4.343	4.437
78-4.266SS	0.079	4.348	4.506
103-4.350	0.103	4.350	4.556
176-4.350	0.176	4.350	4.702
103-4.359	0.103	4.359	4.565
250-4.375	0.250	4.375	4.875
140-4.379	0.140	4.379	4.659
44-4.390	0.044	4.390	4.478
103-4.397	0.103	4.397	4.603
375-4.438ES	0.376	4.449	5.201
71-4.409VS	0.072	4.455	4.599

Mold IDen	C/S	ID	OD (Ref)
60-4.500SS	0.060	4.467	4.587
176-4.475	0.176	4.475	4.827
220-4.475	0.220	4.475	4.915
241-4.475	0.241	4.475	4.957
181-4.488	0.181	4.488	4.850
103-4.487ES	0.103	4.498	4.704
103-4.487ES	0.103	4.498	4.704
500-4.500	0.500	4.500	5.500
30-4.523	0.030	4.507	4.567
140-4.508	0.140	4.508	4.788
70-4.562	0.070	4.562	4.702
125-4.600	0.125	4.600	4.850
188-4.976	0.188	4.600	4.976
103-4.612	0.103	4.612	4.818
140-4.630	0.140	4.630	4.910
212-4.645	0.212	4.645	5.069
103-4.609SS	0.104	4.654	4.862
141-4.654	0.141	4.654	4.936
70-4.672	0.070	4.672	4.812
176-4.725	0.176	4.725	5.077
117-4.750	0.117	4.734	4.968
219-4.750	0.219	4.750	5.188
312-4.700ES	0.316	4.754	5.386
140-4.755	0.140	4.755	5.035
278-4.769	0.278	4.769	5.325
212-4.774	0.212	4.774	5.198
315-4.776	0.315	4.776	5.406
71-4.784	0.071	4.784	4.926
625-4.812	0.625	4.812	6.062
159-4.850	0.159	4.850	5.168
176-4.850	0.176	4.850	5.202
241-4.850	0.241	4.850	5.332
103-4.859	0.103	4.859	5.065
70-4.864	0.070	4.864	5.004
455-4.866	0.455	4.866	5.776
140-4.881	0.140	4.881	5.161
70-4.890	0.070	4.890	5.030
103-4.886ES	0.103	4.898	5.104
197-4.921	0.197	4.921	5.315
141-4.928	0.141	4.928	5.210
103-4.930	0.103	4.930	5.136
139-4.910ES	0.140	4.937	5.217
438-4.938	0.438	4.938	5.814
252-4.905VS	0.255	4.968	5.478
147-4.984	0.147	4.984	5.278

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Mold IDen	C/S	ID	OD (Ref)
500-5.000	0.500	5.000	6.000
140-5.006	0.140	5.006	5.286
375-5.000SS	0.377	5.023	5.777
147-4.984SS	0.148	5.031	5.327
168-5.005VS	0.170	5.057	5.397
103-5.106	0.103	5.106	5.312
70-5.114	0.070	5.114	5.254
103-5.117	0.103	5.117	5.323
1.062-5.125	1.062	5.125	7.249
103-5.140ES	0.103	5.153	5.359
170-5.118SS	0.172	5.191	5.535
197-5.197	0.197	5.197	5.591
50-5.163VS	0.050	5.212	5.312
62-5.250	0.062	5.250	5.374
211-5.251	0.211	5.251	5.673
140-5.253	0.140	5.253	5.533
125-5.270	0.125	5.270	5.520
103-5.272ES	0.103	5.285	5.491
71-5.288	0.071	5.288	5.430
103-5.290ES	0.103	5.303	5.509
104-5.305	0.104	5.305	5.513
103-5.300ES	0.103	5.313	5.519
118-5.315	0.118	5.315	5.551
103-5.322ES	0.103	5.336	5.542
70-5.360	0.070	5.360	5.500
50-5.302VS	0.051	5.365	5.467
70-5.379	0.070	5.379	5.519
103-5.380ES	0.103	5.394	5.600
210-5.450	0.208	5.394	5.810
330-5.319SS	0.335	5.395	6.065
79-5.315VS	0.080	5.396	5.556
330-5.354SS	0.335	5.431	6.101
142-5.466	0.142	5.466	5.750
118-5.492	0.118	5.492	5.728
103-5.483ES	0.103	5.497	5.703
162-5.500	0.162	5.500	5.824
139-5.503	0.139	5.503	5.781
103-5.496ES	0.103	5.510	5.716
125-5.531	0.125	5.531	5.781
121-5.562	0.121	5.562	5.804
500-5.562	0.500	5.562	6.562
104-5.565	0.104	5.565	5.773
105-5.566	0.105	5.566	5.776
103-5.602	0.103	5.602	5.808
157-5.512VS	0.160	5.607	5.927

Mold IDen	C/S	ID	OD (Ref)
189-5.650	0.188	5.631	6.007
140-5.661	0.140	5.661	5.941
118-5.689	0.118	5.689	5.925
70-5.700	0.070	5.703	5.843
97-5.723	0.097	5.723	5.917
241-5.725	0.241	5.725	6.207
375-5.750	0.375	5.750	6.500
103-5.750ES	0.103	5.765	5.971
197-5.708VS	0.200	5.781	6.181
71-5.795	0.071	5.795	5.937
70-5.740SS	0.071	5.796	5.938
278-5.796	0.278	5.796	6.352
500-5.750VS	0.509	5.849	6.867
70-5.810SS	0.071	5.865	6.007
118-5.905	0.118	5.905	6.141
375-5.850VS	0.381	5.950	6.712
70-5.910SS	0.071	5.966	6.108
70-5.968	0.070	5.968	6.108
176-5.906SS	0.179	5.996	6.354
500-6.000	0.500	6.000	7.000
245-6.015	0.245	6.015	6.505
71-6.048	0.071	6.048	6.190
141-6.064	0.141	6.064	6.346
224-6.075	0.224	6.075	6.523
74-6.100	0.074	6.080	6.228
103-6.125	0.103	6.125	6.331
256-6.181	0.256	6.172	6.684
70-6.180	0.070	6.180	6.320
103-6.167ES	0.103	6.183	6.389
60-6.187	0.060	6.187	6.307
241-6.225	0.241	6.225	6.707
500-6.264	0.497	6.225	7.219
80-6.250	0.080	6.250	6.410
211-6.256	0.211	6.256	6.678
258-6.179VS	0.261	6.258	6.780
157-6.299	0.157	6.299	6.613
70-6.284ES	0.070	6.306	6.446
455-6.308	0.455	6.308	7.218
70-6.309	0.070	6.309	6.449
112-6.378SS	0.112	6.325	6.549
260-6.325	0.260	6.325	6.845
70-6.310VS	0.070	6.349	6.489
139-6.350	0.139	6.350	6.628
139-6.350	0.139	6.350	6.628
210-6.350	0.210	6.350	6.770

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Fax: 612-342-2417
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O-Rings

Special Size



Mold IDen	C/S	ID	OD (Ref)
103-6.380	0.103	6.380	6.586
164-6.299SS	0.167	6.395	6.729
103-6.400ES	0.103	6.416	6.622
103-6.424	0.103	6.424	6.630
63-6.400VS	0.064	6.460	6.588
118-6.378VS	0.120	6.460	6.700
125-6.460	0.125	6.460	6.710
80-6.500	0.080	6.500	6.660
94-6.500	0.094	6.500	6.688
91-6.394SS	0.093	6.510	6.696
140-6.516	0.140	6.516	6.796
103-6.501ES	0.103	6.518	6.724
520-6.519	0.520	6.519	7.559
70-6.520	0.070	6.520	6.660
258-6.437VS	0.261	6.520	7.042
275-6.600	0.275	6.600	7.150
139-6.609	0.139	6.609	6.887
500-6.625	0.500	6.625	7.625
50-6.567VS	0.050	6.629	6.729
380-6.640	0.380	6.640	7.400
139-6.630ES	0.139	6.646	6.924
210-6.666	0.210	6.666	7.086
45-6.690	0.045	6.667	6.757
70-6.687	0.070	6.687	6.827
380-6.688	0.380	6.688	7.448
103-6.674ES	0.103	6.691	6.897
70-6.734	0.070	6.734	6.874
437-6.750	0.437	6.750	7.624
375-6.650VS	0.381	6.763	7.525
312-6.700VS	0.315	6.770	7.400
150-6.650SS	0.153	6.778	7.084
224-6.783	0.224	6.783	7.231
70-6.722SS	0.071	6.785	6.927
140-6.797	0.140	6.797	7.077
47-6.812	0.047	6.812	6.906
295-6.835NS	0.294	6.822	7.410
157-6.830	0.157	6.830	7.144
103-6.850ES	0.103	6.867	7.073
139-6.850ES	0.139	6.867	7.145
70-6.950	0.070	6.950	7.090
295-6.910SS	0.297	6.964	7.558
241-6.975	0.241	6.975	7.457
60-7.000	0.060	7.000	7.120
160-7.006	0.160	7.006	7.326
104-7.053	0.104	7.053	7.261

Mold IDen	C/S	ID	OD (Ref)
375-7.125SS	0.377	7.157	7.911
241-7.225	0.241	7.225	7.707
103-7.300ES	0.103	7.319	7.525
500-7.250ES	0.506	7.339	8.351
70-7.360ES	0.070	7.371	7.511
281-7.378	0.281	7.378	7.940
375-7.324SS	0.379	7.409	8.167
103-7.416	0.103	7.435	7.641
241-7.475	0.241	7.475	7.957
70-7.500	0.070	7.500	7.640
375-7.500	0.375	7.500	8.250
500-7.250VS	0.518	7.505	8.541
236-7.441	0.238	7.509	7.985
140-7.562	0.140	7.562	7.842
278-7.567	0.278	7.567	8.123
215-7.581	0.215	7.571	8.001
103-7.583ES	0.103	7.602	7.808
103-7.609	0.103	7.609	7.815
70-7.613	0.070	7.613	7.753
139-7.609ES	0.139	7.628	7.906
103-7.673ES	0.103	7.692	7.898
241-7.725	0.241	7.725	8.207
375-7.733	0.375	7.733	8.483
146-7.700SS	0.148	7.817	8.113
103-7.862	0.103	7.862	8.068
103-7.848ES	0.103	7.868	8.074
70-7.870	0.070	7.870	8.010
139-7.850ES	0.139	7.870	8.148
103-7.950NS	0.103	7.939	8.145
103-7.950ES	0.103	7.970	8.176
139-7.950ES	0.139	7.970	8.248
241-7.975	0.241	7.975	8.457
625-8.000	0.625	8.000	9.250
103-8.039ES	0.104	8.083	8.291
199-8.029ES	0.200	8.083	8.483
279-8.105	0.279	8.105	8.663
70-8.135ES	0.070	8.148	8.288
375-8.159	0.375	8.159	8.909
331-8.197	0.331	8.197	8.859
275-8.225	0.275	8.225	8.775
375-8.130SS	0.379	8.225	8.983
224-8.240	0.224	8.240	8.688
375-8.250	0.375	8.250	9.000
140-8.295	0.140	8.295	8.575
103-8.282ES	0.103	8.303	8.509

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270-8.240SS	0.273	8.336	8.882
388-8.380	0.388	8.380	9.156
275-8.350ES	0.277	8.404	8.958
70-8.400ES	0.070	8.413	8.553
187-8.553	0.186	8.524	8.896
241-8.475SS	0.243	8.546	9.032
328-8.500VS	0.331	8.569	9.231
118-8.504VS	0.119	8.584	8.822
375-8.505SS	0.379	8.604	9.362
625-8.625	0.625	8.625	9.875
210-8.641	0.210	8.641	9.061
275-8.725	0.275	8.725	9.275
312-8.750	0.312	8.750	9.374
380-8.812ES	0.381	8.834	9.596
103-8.825ES	0.103	8.847	9.053
103-8.840ES	0.103	8.862	9.068
323-8.898	0.323	8.898	9.544
103-8.998ES	0.103	9.021	9.227
103-9.050	0.103	9.050	9.256
140-9.072	0.140	9.072	9.352
103-9.250	0.103	9.250	9.456
375-9.312SS	0.379	9.421	10.179
70-9.435ES	0.070	9.450	9.590
375-9.250SS	0.384	9.464	10.232
103-9.500ES	0.103	9.524	9.730
270-9.421SS	0.273	9.531	10.077
202-9.598VS	0.203	9.641	10.047
70-9.621ES	0.070	9.659	9.799
70-9.650ES	0.070	9.665	9.805
70-9.675ES	0.070	9.690	9.830
375-9.600	0.380	9.690	10.450
139-9.700	0.139	9.700	9.978
241-9.475SS	0.247	9.713	10.207
140-9.782	0.140	9.782	10.062
215-9.837	0.215	9.837	10.267
103-9.892ES	0.103	9.917	10.123
159-9.950	0.159	9.950	10.268
103-9.940ES	0.103	9.965	10.171
70-9.970	0.070	9.970	10.110
375-9.881SS	0.379	9.996	10.754
103-9.982ES	0.103	10.007	10.213
215-10.060	0.215	10.060	10.490
139-10.048ES	0.139	10.073	10.351
70-9.989VS	0.071	10.112	10.254
241-9.975VS	0.244	10.118	10.606

Mold IDen	C/S	ID	OD (Ref)
103-10.095ES	0.103	10.121	10.327
210-10.115ES	0.211	10.141	10.563
139-10.178	0.139	10.178	10.456
70-10.207ES	0.070	10.223	10.363
210-10.250	0.210	10.250	10.670
351-10.270	0.351	10.270	10.972
167-10.186SS	0.169	10.282	10.620
210-10.190SS	0.212	10.296	10.720
210-10.300	0.210	10.300	10.720
70-10.232SS	0.071	10.328	10.470
349-10.199VS	0.354	10.335	11.043
104-10.372	0.104	10.372	10.580
70-10.433ES	0.070	10.459	10.599
70-10.485	0.070	10.485	10.625
103-10.450ES	0.103	10.487	10.693
103-10.449	0.104	10.517	10.725
260-10.425SS	0.262	10.523	11.047
159-10.600	0.159	10.600	10.918
139-10.610	0.139	10.610	10.888
70-10.530SS	0.071	10.629	10.771
71-10.635	0.071	10.635	10.777
103-10.622ES	0.103	10.649	10.855
103-10.500SS	0.105	10.660	10.870
275-10.725	0.275	10.725	11.275
375-10.690SS	0.379	10.728	11.486
139-10.734	0.139	10.760	11.038
256-10.846SS	0.255	10.801	11.311
103-10.781ES	0.103	10.808	11.014
70-10.800ES	0.070	10.817	10.957
157-10.827	0.157	10.827	11.141
380-10.875	0.380	10.875	11.635
103-10.710SS	0.105	10.958	11.168
103-10.984	0.103	10.984	11.190
103-10.964ES	0.103	10.992	11.198
139-11.034ES	0.139	11.062	11.340
70-11.085ES	0.070	11.102	11.242
103-11.120	0.103	11.120	11.326
141-11.120	0.141	11.120	11.402
103-11.150ES	0.103	11.178	11.384
103-11.239NS	0.103	11.190	11.396
103-11.096SS	0.104	11.200	11.408
103-11.275ES	0.103	11.275	11.481
70-11.339ES	0.070	11.368	11.508
70-11.240SS	0.071	11.423	11.565
103-11.480ES	0.103	11.509	11.715

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290-11.475ES	0.291	11.532	12.114
93-11.500	0.093	11.541	11.727
339-11.654	0.339	11.638	12.316
103-11.897NS	0.103	11.846	12.052
70-11.989	0.070	11.989	12.129
275-12.000	0.275	12.000	12.550
277-12.064	0.277	12.064	12.618
140-12.073	0.140	12.073	12.353
370-12.157	0.368	12.081	12.817
370-12.106	0.370	12.106	12.846
256-12.205	0.255	12.164	12.674
103-12.155ES	0.103	12.186	12.392
142-12.214	0.142	12.214	12.498
142-12.224	0.142	12.224	12.508
375-12.250VS	0.376	12.269	13.021
139-12.278	0.139	12.278	12.556
209-12.413	0.209	12.413	12.831
210-12.475	0.210	12.475	12.895
139-12.484	0.139	12.516	12.794
139-12.475VS	0.141	12.653	12.935
70-12.720	0.070	12.720	12.860
103-12.718ES	0.104	12.788	12.996
312-12.750SS	0.316	12.899	13.531
375-12.750SS	0.379	12.899	13.657
139-13.062	0.139	13.062	13.340
139-13.114	0.140	13.114	13.394
70-13.114ES	0.070	13.134	13.274
139-13.234	0.139	13.234	13.512
139-13.248	0.139	13.248	13.526
224-13.252	0.224	13.252	13.700
103-13.425ES	0.103	13.459	13.665
210-13.475	0.210	13.475	13.895
139-13.484	0.139	13.484	13.762
210-13.375SS	0.212	13.514	13.938
625-13.875SS	0.630	14.101	15.361
631-14.101	0.631	14.101	15.363
339-14.189	0.338	14.128	14.804
224-14.146	0.224	14.146	14.594
500-14.156	0.500	14.156	15.156
1.000-14.430	0.993	14.325	16.311
139-14.484	0.139	14.484	14.762
288-14.250SS	0.293	14.515	15.101
87-14.470SS	0.088	14.649	14.825
197-14.764	0.197	14.764	15.158
225-14.900NS	0.224	14.836	15.284

Mold IDen	C/S	ID	OD (Ref)
248-15.000	0.247	14.950	15.444
104-14.990	0.104	14.990	15.198
338-15.410	0.338	15.410	16.086
210-15.475	0.210	15.475	15.895
139-15.484	0.139	15.484	15.762
225-15.500SS	0.227	15.646	16.100
1.000-15.735	1.000	15.735	17.735
110-16.186	0.110	16.186	16.406
70-16.268SS	0.070	16.357	16.497
139-16.455	0.139	16.455	16.733
70-16.535	0.070	16.577	16.717
375-16.625	0.375	16.625	17.375
312-16.690	0.311	16.690	17.312
275-16.750	0.274	16.694	17.242
210-16.830	0.210	16.830	17.250
290-16.625SS	0.294	16.830	17.418
139-17.455	0.139	17.455	17.733
139-17.480	0.139	17.480	17.758
240-17.250SS	0.245	17.581	18.071
313-18.000	0.313	18.000	18.626
139-18.455	0.139	18.455	18.733
125-18.600	0.125	18.600	18.850
139-18.875	0.139	18.875	19.153
210-19.200	0.210	19.200	19.620
500-19.411	0.500	19.411	20.411
139-19.455	0.139	19.455	19.733
352-20.126	0.352	20.098	20.802
346-20.125	0.346	20.125	20.817
22-20.370	0.022	20.370	20.414
139-20.455	0.139	20.455	20.733
197-20.669	0.196	20.600	20.992
197-20.670	0.196	20.601	20.993
197-20.669VS	0.199	20.936	21.334
124-21.000	0.124	21.000	21.248
70-20.840SS	0.071	21.077	21.219
139-21.455	0.139	21.455	21.733
70-21.270SS	0.071	21.512	21.654
139-21.800SS	0.140	22.014	22.294
212-22.106	0.212	22.106	22.530
277-23.098	0.277	23.098	23.652
210-22.940VS	0.212	23.178	23.602
212-24.104	0.212	24.104	24.528
212-24.188	0.212	24.188	24.612
210-24.625	0.210	24.625	25.045
340-25.275VS	0.344	25.599	26.287

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250-25.375VS	0.252	25.614	26.118
70-25.570SS	0.071	25.810	25.952
210-25.580VS	0.212	25.846	26.270
341-25.984	0.339	25.846	26.524
212-26.209	0.212	26.209	26.633
210-26.940	0.210	26.940	27.360
375-27.250VS	0.377	27.399	28.153
275-27.485	0.275	27.485	28.035
139-27.750SS	0.140	28.291	28.571
275-28.801	0.275	28.801	29.351
275-29.331ES	0.276	29.520	30.072
210-29.880VS	0.212	30.190	30.614



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