

## Model Number: MS29512

### Mil Spec O-Rings

: Packing Preformed (Oring) fabricated from MIL-P-5315B 70 Durometer Nitrile Rubber (Boss Orings) used in aircraft fuel systems with jet engines (-65 to 200F) - Hydrocarbon and fuel resistant.  
Size Range .04 to 2 Tubing OD



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<b>Part Number</b>	<b>Tube OD (in.)</b>	<b>Thickness</b>	<b>Gasket ID</b>
MS29512-2	1/8	0.064	0.239
MS29512-3	3/16	0.064	0.301
MS29512-4	1/4	0.072	0.351
MS29512-5	5/16	0.075	0.414
MS29512-6	3/8	0.078	0.468
MS29512-8	1/2	0.087	0.644
MS29512-10	5/8	0.097	0.755
MS29512-12	3/4	0.116	0.924
MS29512-16	1	0.116	1.047
MS29512-20	1-1/4	0.118	1.475
MS29512-24	1-1/2	0.118	1.720
MS29512-28	1-3/4	0.118	2.090

	Inside Dia.	Nominal Inside Diameter	Nominal Outside Diameter	Nominal Cross Section	Inside Dia.- Tol.	Inside Dia.	Inside Dia.- Tol.	Cross Section Dia.	Cross Section Dia.- Tol.	Cross Section Dia.	Cross Section Dia.- Tol.
-001	.029	0.03125	0.09375	0.03125	.004	0.74	0.10	.040	.003	1.02	0.07
-002	.042	0.046875	0.140625	0.03125	.004	1.07	0.10	.050	.003	1.27	0.07
-003	.056	0.0625	0.1875	0.0625	.004	1.42	0.10	.060	.003	1.52	0.07
-004	.070	0.078125	0.203125	0.0625	.005	1.78	0.13	.070	.003	1.78	0.07
-005	.101	0.09375	0.21875	0.0625	.005	2.57	0.13	.070	.003	1.78	0.07
-006	.114	0.125	0.25	0.0625	.005	2.90	0.13	.070	.003	1.78	0.07
-007	.145	0.15625	0.28125	0.0625	.005	3.68	0.13	.070	.003	1.78	0.07
-008	.176	0.1875	0.3125	0.0625	.005	4.47	0.13	.070	.003	1.78	0.07
-009	.208	0.21875	0.34375	0.0625	.005	5.28	0.13	.070	.003	1.78	0.07
-010	.239	0.25	0.375	0.0625	.005	6.07	0.13	.070	.003	1.78	0.07
-011	.301	0.3125	0.4375	0.0625	.005	7.65	0.13	.070	.003	1.78	0.07
-012	.364	0.375	0.5	0.0625	.005	9.25	0.13	.070	.003	1.78	0.07
-013	.426	0.4375	0.5625	0.0625	.005	10.82	0.13	.070	.003	1.78	0.07
-014	.489	0.50	0.625	0.0625	.005	12.42	0.13	.070	.003	1.78	0.07
-015	.551	0.5625	0.6875	0.0625	.007	14.00	0.18	.070	.003	1.78	0.07
-016	.614	0.625	0.75	0.0625	.009	15.60	0.23	.070	.003	1.78	0.07
-017	.676	0.6875	0.8125	0.0625	.009	17.17	0.23	.070	.003	1.78	0.07
-018	.739	0.75	0.875	0.0625	.009	18.77	0.23	.070	.003	1.78	0.07
-019	.801	0.8125	0.9375	0.0625	.009	20.35	0.23	.070	.003	1.78	0.07
-020	.864	0.875	1.0	0.0625	.009	21.95	0.23	.070	.003	1.78	0.07
-021	.926	0.9375	1.0625	0.0625	.009	23.52	0.23	.070	.003	1.78	0.07
-022	.989	1.0	1.125	0.0625	.010	25.12	0.25	.070	.003	1.78	0.07
-023	1.051	1.0625	1.1875	0.0625	.010	26.70	0.25	.070	.003	1.78	0.07
-024	1.114	1.125	1.25	0.0625	.010	28.30	0.25	.070	.003	1.78	0.07
-025	1.176	1.1875	1.3125	0.0625	.011	29.87	0.28	.070	.003	1.78	0.07
-026	1.239	1.25	1.375	0.0625	.011	31.47	0.28	.070	.003	1.78	0.07
-027	1.301	1.3125	1.4375	0.0625	.011	33.05	0.28	.070	.003	1.78	0.07
-028	1.364	1.375	1.5	0.0625	.013	34.65	0.33	.070	.003	1.78	0.07
-029	1.489	1.5	1.625	0.0625	.013	37.82	0.33	.070	.003	1.78	0.07
-030	1.614	1.625	1.75	0.0625	.013	41.00	0.33	.070	.003	1.78	0.07
-031	1.739	1.75	1.875	0.0625	.015	44.17	0.38	.070	.003	1.78	0.07
-032	1.864	1.875	2.0	0.0625	.015	47.35	0.38	.070	.003	1.78	0.07
-033	1.989	2.0	2.125	0.0625	.018	50.52	0.46	.070	.003	1.78	0.07
-034	2.114	2.125	2.25	0.0625	.018	53.70	0.46	.070	.003	1.78	0.07
-035	2.239	2.25	2.375	0.0625	.018	56.87	0.46	.070	.003	1.78	0.07
-036	2.364	2.375	2.5	0.0625	.018	60.05	0.46	.070	.003	1.78	0.07
-037	2.489	2.5	2.625	0.0625	.018	63.22	0.46	.070	.003	1.78	0.07
-038	2.614	2.625	2.75	0.0625	.020	66.40	0.51	.070	.003	1.78	0.07
-039	2.739	2.75	2.875	0.0625	.020	69.57	0.51	.070	.003	1.78	0.07
-040	2.864	2.875	3.0	0.0625	.020	72.75	0.51	.070	.003	1.78	0.07
-041	2.989	3.0	3.125	0.0625	.024	75.92	0.61	.070	.003	1.78	0.07
-042	3.239	3.25	3.375	0.0625	.024	82.27	0.61	.070	.003	1.78	0.07
-043	3.489	3.5	3.625	0.0625	.024	88.62	0.61	.070	.003	1.78	0.07
-044	3.739	3.75	3.875	0.0625	.027	94.97	0.69	.070	.003	1.78	0.07
-045	3.989	4.0	4.125	0.0625	.027	101.32	0.69	.070	.003	1.78	0.07
-046	4.239	4.25	4.375	0.0625	.030	107.67	0.76	.070	.003	1.78	0.07
-047	4.489	4.5	4.625	0.0625	.030	114.02	0.76	.070	.003	1.78	0.07

-048	4.739	4.75	4.875	0.0625	.030	120.37	0.76	.070	.003	1.78	0.07
-049	4.989	5.0	5.125	0.0625	.037	126.72	0.94	.070	.003	1.78	0.07
-050	5.239	5.25	5.375	0.0625	.037	133.07	0.94	.070	.003	1.78	0.07
-102	.049	0.0625	0.25	0.09375	.005	1.24	0.10	.103	.003	2.62	0.08
-103	.081	0.09375	0.28125	0.09375	.005	2.06	0.13	.103	.003	2.62	0.08
-104	.112	0.125	0.3125	0.09375	.005	2.84	0.13	.103	.003	2.62	0.08
-105	.143	0.15625	0.34375	0.09375	.005	3.63	0.13	.103	.003	2.62	0.08
-106	.174	0.1875	0.375	0.09375	.005	4.42	0.13	.103	.003	2.62	0.08
-107	.206	0.21875	0.40625	0.09375	.005	5.23	0.13	.103	.003	2.62	0.08
-108	.237	0.25	0.4375	0.09375	.005	6.02	0.13	.103	.003	2.62	0.08
-109	.299	0.3125	0.5	0.09375	.005	7.59	0.13	.103	.003	2.62	0.08
-110	.362	0.375	0.5625	0.09375	.005	9.19	0.13	.103	.003	2.62	0.08
-111	.424	0.4375	0.625	0.09375	.005	10.77	0.13	.103	.003	2.62	0.08
-112	.487	0.50	0.6875	0.09375	.005	12.37	0.13	.103	.003	2.62	0.08
-113	.549	0.5625	0.75	0.09375	.005	13.94	0.13	.103	.003	2.62	0.08
-114	.612	0.625	0.8125	0.09375	.005	15.54	0.23	.103	.003	2.62	0.08
-115	.674	0.6875	0.875	0.09375	.005	17.12	0.23	.103	.003	2.62	0.08
-116	.737	0.75	0.9375	0.09375	.009	18.72	0.23	.103	.003	2.62	0.08
-117	.799	0.8125	1.0	0.09375	.010	20.29	0.25	.103	.003	2.62	0.08
-118	.862	0.875	1.0625	0.09375	.010	21.89	0.25	.103	.003	2.62	0.08
-119	.924	0.9375	1.125	0.09375	.010	23.47	0.25	.103	.003	2.62	0.08
-120	.987	1.0	1.1875	0.09375	.010	25.07	0.25	.103	.003	2.62	0.08
-121	1.049	1.0625	1.25	0.09375	.010	26.64	0.25	.103	.003	2.62	0.08
-122	1.112	1.125	1.3125	0.09375	.010	28.24	0.25	.103	.003	2.62	0.08
-123	1.174	1.1875	1.375	0.09375	.012	29.82	0.30	.103	.003	2.62	0.08
-124	1.237	1.25	1.4375	0.09375	.012	31.42	0.30	.103	.003	2.62	0.08
-125	1.299	1.3125	1.5	0.09375	.012	32.99	0.30	.103	.003	2.62	0.08
-126	1.362	1.375	1.5625	0.09375	.012	34.59	0.30	.103	.003	2.62	0.08
-127	1.424	1.4375	1.625	0.09375	.012	36.17	0.30	.103	.003	2.62	0.08
-128	1.487	1.5	1.6875	0.09375	.012	37.77	0.30	.103	.003	2.62	0.08
-129	1.549	1.5625	1.75	0.09375	.015	39.34	0.38	.103	.003	2.62	0.08
-130	1.612	1.625	1.8125	0.09375	.015	40.94	0.38	.103	.003	2.62	0.08
-131	1.674	1.6875	1.875	0.09375	.015	42.52	0.38	.103	.003	2.62	0.08
-132	1.737	1.75	1.9375	0.09375	.015	44.12	0.38	.103	.003	2.62	0.08
-133	1.799	1.8125	2.0	0.09375	.015	45.69	0.38	.103	.003	2.62	0.08
-134	1.862	1.875	2.0625	0.09375	.015	47.29	0.38	.103	.003	2.62	0.08
-135	1.925	1.9375	2.125	0.09375	.017	48.90	0.43	.103	.003	2.62	0.08
-136	1.987	2.0	2.1875	0.09375	.017	50.47	0.43	.103	.003	2.62	0.08
-137	2.050	2.0625	2.25	0.09375	.017	52.07	0.43	.103	.003	2.62	0.08
-138	2.112	2.125	2.3125	0.09375	.017	53.64	0.43	.103	.003	2.62	0.08
-139	2.175	2.1875	2.375	0.09375	.017	55.25	0.43	.103	.003	2.62	0.08
-140	2.237	2.25	2.4375	0.09375	.017	56.82	0.43	.103	.003	2.62	0.08
-141	2.300	2.3125	2.5	0.09375	.020	58.42	0.51	.103	.003	2.62	0.08
-142	2.362	2.375	2.5625	0.09375	.020	59.99	0.51	.103	.003	2.62	0.08
-143	2.425	2.4375	2.625	0.09375	.020	61.60	0.51	.103	.003	2.62	0.08
-144	2.487	2.5	2.6875	0.09375	.020	63.17	0.51	.103	.003	2.62	0.08
-145	2.550	2.5625	2.75	0.09375	.020	64.77	0.51	.103	.003	2.62	0.08
-146	2.612	2.625	2.8125	0.09375	.020	66.34	0.51	.103	.003	2.62	0.08
-147	2.675	2.6875	2.875	0.09375	.022	67.95	0.56	.103	.003	2.62	0.08
-148	2.737	2.75	2.9375	0.09375	.022	69.52	0.56	.103	.003	2.62	0.08

-149	2.800	2.8125	3.0	0.09375	.022	71.12	0.56	.103	.003	2.62	0.08
-150	2.862	2.875	3.0625	0.09375	.022	72.69	0.56	.103	.003	2.62	0.08
-151	2.987	3.0	3.1875	0.09375	.024	75.87	0.61	.103	.003	2.62	0.08
-152	3.237	3.25	3.4375	0.09375	.024	82.22	0.61	.103	.003	2.62	0.08
-153	3.487	3.5	3.6875	0.09375	.024	88.57	0.61	.103	.003	2.62	0.08
-154	3.737	3.75	3.9375	0.09375	.028	94.92	0.71	.103	.003	2.62	0.08
-155	3.987	4.0	4.1875	0.09375	.028	101.27	0.71	.103	.003	2.62	0.08
-156	4.237	4.25	4.4375	0.09375	.030	107.62	0.76	.103	.003	2.62	0.08
-157	4.487	4.5	4.6875	0.09375	.030	113.97	0.76	.103	.003	2.62	0.08
-158	4.737	4.75	4.9375	0.09375	.030	120.32	0.76	.103	.003	2.62	0.08
-159	4.987	5.0	5.1875	0.09375	.035	126.67	0.89	.103	.003	2.62	0.08
-160	5.237	5.25	5.4375	0.09375	.035	133.02	0.89	.103	.003	2.62	0.08
-161	5.487	5.5	5.6875	0.09375	.035	139.37	0.89	.103	.003	2.62	0.08
-162	5.737	5.75	5.9375	0.09375	.035	145.72	0.89	.103	.003	2.62	0.08
-163	5.987	6.0	6.1875	0.09375	.035	152.07	0.89	.103	.003	2.62	0.08
-164	6.237	6.25	6.4375	0.09375	.040	158.42	1.02	.103	.003	2.62	0.08
-165	6.487	6.5	6.6875	0.09375	.040	164.77	1.02	.103	.003	2.62	0.08
-166	6.737	6.75	6.9375	0.09375	.040	171.12	1.02	.103	.003	2.62	0.08
-167	6.987	7.0	7.1875	0.09375	.040	177.47	1.02	.103	.003	2.62	0.08
-168	7.237	7.25	7.4375	0.09375	.045	183.82	1.14	.103	.003	2.62	0.08
-169	7.487	7.5	7.6875	0.09375	.045	190.17	1.14	.103	.003	2.62	0.08
-170	7.737	7.75	7.9375	0.09375	.045	196.52	1.14	.103	.003	2.62	0.08
-171	7.987	8.0	8.1875	0.09375	.045	202.87	1.14	.103	.003	2.62	0.08
-172	8.237	8.25	8.4375	0.09375	.050	209.22	1.27	.103	.003	2.62	0.08
-173	8.487	8.5	8.6875	0.09375	.050	215.57	1.27	.103	.003	2.62	0.08
-174	8.737	8.75	8.9375	0.09375	.050	221.92	1.27	.103	.003	2.62	0.08
-175	8.987	9.0	9.1875	0.09375	.050	228.27	1.27	.103	.003	2.62	0.08
-176	9.237	9.25	9.4375	0.09375	.055	234.62	1.40	.103	.003	2.62	0.08
-177	9.487	9.5	9.6875	0.09375	.055	240.97	1.40	.103	.003	2.62	0.08
-178	9.737	9.75	9.9375	0.09375	.055	247.32	1.40	.103	.003	2.62	0.08
-201	.171	0.1875	0.4375	0.125	.007	4.34	0.18	.139	.004	3.53	0.10
-202	.234	0.25	0.5	0.125	.007	5.94	0.18	.139	.004	3.53	0.10
-203	.296	0.3125	0.5625	0.125	.007	7.52	0.18	.139	.004	3.53	0.10
-204	.359	0.375	0.625	0.125	.007	9.12	0.18	.139	.004	3.53	0.10
-205	.421	0.4375	0.6875	0.125	.007	10.69	0.18	.139	.004	3.53	0.10
-206	.484	0.50	0.75	0.125	.007	12.29	0.18	.139	.004	3.53	0.10
-207	.546	0.5625	0.8125	0.125	.007	13.87	0.18	.139	.004	3.53	0.10
-208	.609	0.625	0.875	0.125	.009	15.47	0.23	.139	.004	3.53	0.10
-209	.671	0.6875	0.9375	0.125	.009	17.04	0.23	.139	.004	3.53	0.10
-210	.734	0.75	1.0	0.125	.010	18.66	0.25	.139	.004	3.53	0.10
-211	.796	0.8125	1.0625	0.125	.010	20.22	0.25	.139	.004	3.53	0.10
-212	.859	0.875	1.125	0.125	.010	21.82	0.25	.139	.004	3.53	0.10
-213	.921	0.9375	1.1875	0.125	.010	23.40	0.25	.139	.004	3.53	0.10
-214	.984	1.0	1.25	0.125	.010	25.00	0.25	.139	.004	3.53	0.10
-215	1.046	1.0625	1.3125	0.125	.010	26.58	0.25	.139	.004	3.53	0.10
-216	1.109	1.125	1.375	0.125	.012	28.17	0.30	.139	.004	3.53	0.10
-217	1.171	1.1875	1.4375	0.125	.012	29.75	0.30	.139	.004	3.53	0.10
-218	1.234	1.25	1.5	0.125	.012	31.35	0.30	.139	.004	3.53	0.10
-219	1.296	1.3125	1.5625	0.125	.012	32.92	0.30	.139	.004	3.53	0.10
-220	1.359	1.375	1.625	0.125	.012	34.52	0.30	.139	.004	3.53	0.10

-221	1.421	1.4375	1.6875	0.125	.012	36.09	0.30	.139	.004	3.53	0.10
-222	1.484	1.5	1.75	0.125	.015	37.70	0.38	.139	.004	3.53	0.10
-223	1.609	1.625	1.875	0.125	.015	40.87	0.38	.139	.004	3.53	0.10
-224	1.734	1.75	2.0	0.125	.015	44.04	0.38	.139	.004	3.53	0.10
-225	1.859	1.875	2.125	0.125	.018	47.22	0.46	.139	.004	3.53	0.10
-226	1.984	2.0	2.25	0.125	.018	50.39	0.46	.139	.004	3.53	0.10
-227	2.109	2.125	2.375	0.125	.018	53.57	0.46	.139	.004	3.53	0.10
-228	2.234	2.25	2.5	0.125	.020	56.74	0.51	.139	.004	3.53	0.10
-229	2.359	2.375	2.625	0.125	.020	59.92	0.51	.139	.004	3.53	0.10
-230	2.484	2.5	2.75	0.125	.020	63.09	0.51	.139	.004	3.53	0.10
-231	2.609	2.625	2.875	0.125	.020	66.27	0.51	.139	.004	3.53	0.10
-232	2.734	2.75	3.0	0.125	.024	69.44	0.61	.139	.004	3.53	0.10
-233	2.859	2.875	3.125	0.125	.024	72.62	0.61	.139	.004	3.53	0.10
-234	2.984	3.0	3.25	0.125	.024	75.79	0.61	.139	.004	3.53	0.10
-235	3.109	3.125	3.375	0.125	.024	78.97	0.61	.139	.004	3.53	0.10
-236	3.234	3.25	3.5	0.125	.024	82.14	0.61	.139	.004	3.53	0.10
-237	3.359	3.375	3.625	0.125	.024	85.32	0.61	.139	.004	3.53	0.10
-238	3.484	3.5	3.75	0.125	.024	88.49	0.61	.139	.004	3.53	0.10
-239	3.609	3.625	3.875	0.125	.028	91.67	0.71	.139	.004	3.53	0.10
-240	3.734	3.75	4.0	0.125	.028	94.84	0.71	.139	.004	3.53	0.10
-241	3.859	3.875	4.125	0.125	.028	98.02	0.71	.139	.004	3.53	0.10
-242	3.984	4.0	4.25	0.125	.028	101.19	0.71	.139	.004	3.53	0.10
-243	4.109	4.125	4.375	0.125	.028	104.37	0.71	.139	.004	3.53	0.10
-244	4.234	4.25	4.5	0.125	.030	107.54	0.76	.139	.004	3.53	0.10
-245	4.359	4.375	4.625	0.125	.030	110.72	0.76	.139	.004	3.53	0.10
-246	4.484	4.5	4.75	0.125	.030	113.89	0.76	.139	.004	3.53	0.10
-247	4.609	4.625	4.875	0.125	.030	117.07	0.76	.139	.004	3.53	0.10
-248	4.734	4.75	5.0	0.125	.030	120.24	0.76	.139	.004	3.53	0.10
-249	4.859	4.875	5.125	0.125	.035	123.42	0.89	.139	.004	3.53	0.10
-250	4.984	5.0	5.25	0.125	.035	126.59	0.89	.139	.004	3.53	0.10
-251	5.109	5.125	5.375	0.125	.035	129.77	0.89	.139	.004	3.53	0.10
-252	5.234	5.25	5.5	0.125	.035	132.94	0.89	.139	.004	3.53	0.10
-253	5.359	5.375	5.625	0.125	.035	136.12	0.89	.139	.004	3.53	0.10
-254	5.484	5.5	5.75	0.125	.035	139.29	0.89	.139	.004	3.53	0.10
-255	5.609	5.625	5.875	0.125	.035	142.47	0.89	.139	.004	3.53	0.10
-256	5.734	5.75	6.0	0.125	.035	145.64	0.89	.139	.004	3.53	0.10
-257	5.859	5.875	6.125	0.125	.035	148.82	0.89	.139	.004	3.53	0.10
-258	5.984	6.0	6.25	0.125	.035	151.99	0.89	.139	.004	3.53	0.10
-259	6.234	6.25	6.5	0.125	.040	158.34	1.02	.139	.004	3.53	0.10
-260	6.484	6.5	6.75	0.125	.040	164.69	1.02	.139	.004	3.53	0.10
-261	6.734	6.75	7.0	0.125	.040	171.04	1.02	.139	.004	3.53	0.10
-262	6.984	7.0	7.25	0.125	.040	177.39	1.02	.139	.004	3.53	0.10
-263	7.234	7.25	7.5	0.125	.045	183.74	1.14	.139	.004	3.53	0.10
-264	7.484	7.5	7.75	0.125	.045	190.09	1.14	.139	.004	3.53	0.10
-265	7.734	7.75	8.0	0.125	.045	196.44	1.14	.139	.004	3.53	0.10
-266	7.984	8.0	8.25	0.125	.045	202.79	1.14	.139	.004	3.53	0.10
-267	8.234	8.25	8.5	0.125	.050	209.14	1.27	.139	.004	3.53	0.10
-268	8.484	8.5	8.75	0.125	.050	215.49	1.27	.139	.004	3.53	0.10
-269	8.734	8.75	9.0	0.125	.050	221.84	1.27	.139	.004	3.53	0.10
-270	8.984	9.0	9.25	0.125	.050	228.19	1.27	.139	.004	3.53	0.10

-271	9.234	9.25	9.5	0.125	.055	234.54	1.40	.139	.004	3.53	0.10
-272	9.484	9.5	9.75	0.125	.055	240.89	1.40	.139	.004	3.53	0.10
-273	9.734	9.75	10.0	0.125	.055	247.24	1.40	.139	.004	3.53	0.10
-274	9.984	10.0	10.25	0.125	.055	253.59	1.40	.139	.004	3.53	0.10
-275	10.484	10.5	10.75	0.125	.055	266.29	1.40	.139	.004	3.53	0.10
-276	10.984	11.0	11.25	0.125	.065	278.99	1.65	.139	.004	3.53	0.10
-277	11.484	11.5	11.75	0.125	.065	291.69	1.65	.139	.004	3.53	0.10
-278	11.984	12.0	12.25	0.125	.065	304.39	1.65	.139	.004	3.53	0.10
-279	12.984	13.0	13.25	0.125	.065	329.79	1.65	.139	.004	3.53	0.10
-280	13.984	14.0	14.25	0.125	.065	355.19	1.65	.139	.004	3.53	0.10
-281	14.984	15.0	15.25	0.125	.065	380.59	1.65	.139	.004	3.53	0.10
-282	15.955	16.0	16.25	0.125	.075	405.26	1.90	.139	.004	3.53	0.10
-283	16.955	17.0	17.25	0.125	.080	430.66	2.16	.139	.004	3.53	0.10
-284	17.955	18.0	18.25	0.125	.085	456.05	2.42	.139	.004	3.53	0.10
-309	.412	0.4375	0.8125	0.1875	.005	10.46	0.13	.210	.005	5.33	0.13
-310	.475	0.50	0.875	0.1875	.005	12.07	0.13	.210	.005	5.33	0.13
-311	.537	0.5625	0.9375	0.1875	.007	13.64	0.18	.210	.005	5.33	0.13
-312	.600	0.625	1.0	0.1875	.009	15.24	0.23	.210	.005	5.33	0.13
-313	.662	0.6875	1.0625	0.1875	.009	16.81	0.23	.210	.005	5.33	0.13
-314	.725	0.75	1.125	0.1875	.010	18.42	0.25	.210	.005	5.33	0.13
-315	.787	0.8125	1.1875	0.1875	.010	19.99	0.25	.210	.005	5.33	0.13
-316	.850	0.875	1.25	0.1875	.010	21.59	0.25	.210	.005	5.33	0.13
-317	.912	0.9375	1.3125	0.1875	.010	23.16	0.25	.210	.005	5.33	0.13
-318	.975	1.0	1.375	0.1875	.010	24.77	0.25	.210	.005	5.33	0.13
-319	1.037	1.0625	1.4375	0.1875	.010	26.34	0.25	.210	.005	5.33	0.13
-320	1.100	1.125	1.5	0.1875	.012	27.94	0.30	.210	.005	5.33	0.13
-321	1.162	1.1875	1.5625	0.1875	.012	29.51	0.30	.210	.005	5.33	0.13
-322	1.225	1.25	1.625	0.1875	.012	31.12	0.30	.210	.005	5.33	0.13
-323	1.287	1.3125	1.6875	0.1875	.012	32.69	0.30	.210	.005	5.33	0.13
-324	1.350	1.375	1.75	0.1875	.012	34.29	0.30	.210	.005	5.33	0.13
-325	1.475	1.5	1.875	0.1875	.015	37.47	0.38	.210	.005	5.33	0.13
-326	1.600	1.625	2.0	0.1875	.015	40.64	0.38	.210	.005	5.33	0.13
-327	1.725	1.75	2.125	0.1875	.015	43.82	0.38	.210	.005	5.33	0.13
-328	1.850	1.875	2.25	0.1875	.015	46.99	0.38	.210	.005	5.33	0.13
-329	1.975	2.0	2.375	0.1875	.018	50.17	0.46	.210	.005	5.33	0.13
-330	2.100	2.125	2.5	0.1875	.018	53.34	0.46	.210	.005	5.33	0.13
-331	2.225	2.25	2.625	0.1875	.018	56.52	0.46	.210	.005	5.33	0.13
-332	2.350	2.375	2.75	0.1875	.018	59.69	0.46	.210	.005	5.33	0.13
-333	2.475	2.5	2.875	0.1875	.020	62.87	0.51	.210	.005	5.33	0.13
-334	2.600	2.625	3.0	0.1875	.020	66.04	0.51	.210	.005	5.33	0.13
-335	2.725	2.75	3.125	0.1875	.020	69.22	0.51	.210	.005	5.33	0.13
-336	2.850	2.875	3.25	0.1875	.020	72.39	0.51	.210	.005	5.33	0.13
-337	2.975	3.0	3.375	0.1875	.024	75.57	0.61	.210	.005	5.33	0.13
-338	3.100	3.125	3.5	0.1875	.024	78.74	0.61	.210	.005	5.33	0.13
-339	3.225	3.25	3.625	0.1875	.024	81.92	0.61	.210	.005	5.33	0.13
-340	3.350	3.375	3.75	0.1875	.024	85.09	0.61	.210	.005	5.33	0.13
-341	3.475	3.5	3.875	0.1875	.024	88.27	0.61	.210	.005	5.33	0.13
-342	3.600	3.625	4.0	0.1875	.028	91.44	0.71	.210	.005	5.33	0.13
-343	3.725	3.75	4.125	0.1875	.028	94.62	0.71	.210	.005	5.33	0.13
-344	3.850	3.875	4.25	0.1875	.028	97.79	0.71	.210	.005	5.33	0.13



-345	3.975	4.0	4.375	0.1875	.028	100.97	0.71	.210	.005	5.33	0.13
-346	4.100	4.125	4.5	0.1875	.028	104.14	0.71	.210	.005	5.33	0.13
-347	4.225	4.25	4.625	0.1875	.030	107.32	0.76	.210	.005	5.33	0.13
-348	4.350	4.375	4.75	0.1875	.030	110.49	0.76	.210	.005	5.33	0.13
-349	4.475	4.5	4.875	0.1875	.030	113.67	0.76	.210	.005	5.33	0.13
-350	4.600	4.625	5.0	0.1875	.030	116.84	0.76	.210	.005	5.33	0.13
-351	4.725	4.75	5.125	0.1875	.030	120.02	0.76	.210	.005	5.33	0.13
-352	4.850	4.875	5.25	0.1875	.030	123.19	0.76	.210	.005	5.33	0.13
-353	4.975	5.0	5.375	0.1875	.037	126.37	0.94	.210	.005	5.33	0.13
-354	5.100	5.125	5.5	0.1875	.037	129.54	0.94	.210	.005	5.33	0.13
-355	5.225	5.25	5.625	0.1875	.037	132.72	0.94	.210	.005	5.33	0.13
-356	5.350	5.375	5.75	0.1875	.037	135.89	0.94	.210	.005	5.33	0.13
-357	5.475	5.5	5.875	0.1875	.037	139.07	0.94	.210	.005	5.33	0.13
-358	5.600	5.625	6.0	0.1875	.037	142.24	0.94	.210	.005	5.33	0.13
-359	5.725	5.75	6.125	0.1875	.037	145.42	0.94	.210	.005	5.33	0.13
-360	5.850	5.875	6.25	0.1875	.037	148.49	0.94	.210	.005	5.33	0.13
-361	5.975	6.0	6.375	0.1875	.037	151.77	0.94	.210	.005	5.33	0.13
-362	6.225	6.25	6.625	0.1875	.040	158.12	1.02	.210	.005	5.33	0.13
-363	6.475	6.5	6.875	0.1875	.040	164.47	1.02	.210	.005	5.33	0.13
-364	6.725	6.75	7.125	0.1875	.040	170.82	1.02	.210	.005	5.33	0.13
-365	6.975	7.0	7.375	0.1875	.040	177.17	1.02	.210	.005	5.33	0.13
-366	7.225	7.25	7.625	0.1875	.045	183.52	1.14	.210	.005	5.33	0.13
-367	7.475	7.5	7.875	0.1875	.045	189.87	1.14	.210	.005	5.33	0.13
-368	7.725	7.75	8.125	0.1875	.045	196.22	1.14	.210	.005	5.33	0.13
-369	7.975	8.0	8.375	0.1875	.045	202.57	1.14	.210	.005	5.33	0.13
-370	8.225	8.25	8.625	0.1875	.050	208.92	1.14	.210	.005	5.33	0.13
-371	8.475	8.5	8.875	0.1875	.050	215.27	1.30	.210	.005	5.33	0.13
-372	8.725	8.75	9.125	0.1875	.050	221.62	1.30	.210	.005	5.33	0.13
-373	8.975	9.0	9.375	0.1875	.050	227.97	1.30	.210	.005	5.33	0.13
-374	9.225	9.25	9.625	0.1875	.055	234.32	1.40	.210	.005	5.33	0.13
-375	9.475	9.5	9.875	0.1875	.055	240.67	1.40	.210	.005	5.33	0.13
-376	9.725	9.75	10.125	0.1875	.055	247.02	1.40	.210	.005	5.33	0.13
-377	9.975	10.0	10.375	0.1875	.055	253.37	1.40	.210	.005	5.33	0.13
-378	10.475	10.5	10.875	0.1875	.060	266.07	1.52	.210	.005	5.33	0.13
-379	10.975	11.0	11.375	0.1875	.060	278.77	1.52	.210	.005	5.33	0.13
-380	11.475	11.5	11.875	0.1875	.055	291.47	1.65	.210	.005	5.33	0.13
-381	11.975	12.0	12.375	0.1875	.065	304.17	1.65	.210	.005	5.33	0.13
-382	12.975	13.0	13.375	0.1875	.065	329.57	1.65	.210	.005	5.33	0.13
-383	13.975	14.0	14.375	0.1875	.070	354.97	1.78	.210	.005	5.33	0.13
-384	14.975	15.0	15.375	0.1875	.070	380.37	1.78	.210	.005	5.33	0.13
-385	15.955	16.0	16.375	0.1875	.075	405.26	1.90	.210	.005	5.33	0.13
-386	16.955	17.0	17.375	0.1875	.075	430.66	1.90	.210	.005	5.33	0.13
-387	17.955	18.0	18.375	0.1875	.080	456.06	2.15	.210	.005	5.33	0.13
-388	18.952	19.0	19.375	0.1875	.090	481.38	2.25	.210	.005	5.33	0.13
-389	19.952	20.0	20.375	0.1875	.090	506.78	2.25	.210	.005	5.33	0.13
-390	20.952	21.0	21.375	0.1875	.090	532.18	2.25	.210	.005	5.33	0.13
-391	21.952	22.0	22.375	0.1875	.100	557.58	2.25	.210	.005	5.33	0.13
-392	22.940	23.0	23.375	0.1875	.105	582.68	2.75	.210	.005	5.33	0.13
-393	23.940	24.0	24.375	0.1875	.110	608.08	2.80	.210	.005	5.33	0.13
-394	24.940	25.0	25.375	0.1875	.115	633.48	2.90	.210	.005	5.33	0.13

-395	25.940	26.0	26.375	0.1875	.120	658.88	3.05	.210	.005	5.33	0.13
-400	1.350	1.375	1.875	0.25	.010	34.29	0.254	.275	.006	6.99	0.15
-401	1.475	1.5	2.0	0.25	.010	37.46	0.254	.275	.006	6.99	0.15
-402	1.600	1.625	2.125	0.25	.010	40.64	0.254	.275	.006	6.99	0.15
-403	1.725	1.75	2.25	0.25	.010	43.81	0.254	.275	.006	6.99	0.15
-404	1.850	1.875	2.375	0.25	.010	46.99	0.254	.275	.006	6.99	0.15
-405	1.975	2.0	2.5	0.25	.010	50.16	0.254	.275	.006	6.99	0.15
-406	2.100	2.125	2.625	0.25	.010	53.34	0.254	.275	.006	6.99	0.15
-407	2.225	2.25	2.75	0.25	.010	56.51	0.254	.275	.006	6.99	0.15
-408	2.350	2.375	2.875	0.25	.010	59.69	0.254	.275	.006	6.99	0.15
-409	2.475	2.5	3.0	0.25	.010	62.86	0.254	.275	.006	6.99	0.15
-410	2.600	2.625	3.125	0.25	.010	66.04	0.254	.275	.006	6.99	0.15
-411	2.725	2.75	3.25	0.25	.015	69.21	0.381	.275	.006	6.99	0.15
-412	2.850	2.875	3.375	0.25	.015	72.39	0.381	.275	.006	6.99	0.15
-413	2.975	3.0	3.5	0.25	.015	75.56	0.381	.275	.006	6.99	0.15
-414	3.100	3.125	3.625	0.25	.015	78.74	0.381	.275	.006	6.99	0.15
-415	3.225	3.25	3.75	0.25	.015	81.91	0.381	.275	.006	6.99	0.15
-416	3.350	3.375	3.875	0.25	.015	85.09	0.381	.275	.006	6.99	0.15
-417	3.475	3.5	4.0	0.25	.015	88.26	0.381	.275	.006	6.99	0.15
-418	3.600	3.625	4.125	0.25	.015	91.44	0.381	.275	.006	6.99	0.15
-419	3.725	3.75	4.25	0.25	.015	94.61	0.381	.275	.006	6.99	0.15
-420	3.850	3.875	4.375	0.25	.015	97.79	0.381	.275	.006	6.99	0.15
-421	3.975	4.0	4.5	0.25	.015	100.96	0.381	.275	.006	6.99	0.15
-422	4.100	4.125	4.625	0.25	.015	104.14	0.381	.275	.006	6.99	0.15
-423	4.225	4.25	4.75	0.25	.015	107.31	0.381	.275	.006	6.99	0.15
-424	4.350	4.375	4.875	0.25	.015	110.49	0.381	.275	.006	6.99	0.15
-425	4.475	4.5	5.0	0.25	.033	113.67	0.84	.275	.006	6.99	0.15
-426	4.600	4.625	5.125	0.25	.033	116.84	0.84	.275	.006	6.99	0.15
-427	4.725	4.75	5.25	0.25	.033	120.02	0.84	.275	.006	6.99	0.15
-428	4.850	4.875	5.375	0.25	.033	123.19	0.84	.275	.006	6.99	0.15
-429	4.975	5.0	5.5	0.25	.037	126.37	0.94	.275	.006	6.99	0.15
-430	5.100	5.125	5.625	0.25	.037	129.54	0.94	.275	.006	6.99	0.15
-431	5.225	5.25	5.75	0.25	.037	132.72	0.94	.275	.006	6.99	0.15
-432	5.350	5.375	5.875	0.25	.037	135.89	0.94	.275	.006	6.99	0.15
-433	5.475	5.5	6.0	0.25	.037	139.07	0.94	.275	.006	6.99	0.15
-434	5.600	5.625	6.125	0.25	.037	142.24	0.94	.275	.006	6.99	0.15
-435	5.725	5.75	6.25	0.25	.037	145.42	0.94	.275	.006	6.99	0.15
-436	5.850	5.875	6.375	0.25	.037	148.59	0.94	.275	.006	6.99	0.15
-437	5.975	6.0	6.5	0.25	.037	151.77	0.94	.275	.006	6.99	0.15
-438	6.225	6.25	6.75	0.25	.040	158.12	1.02	.275	.006	6.99	0.15
-439	6.475	6.5	7.0	0.25	.040	164.47	1.02	.275	.006	6.99	0.15
-440	6.725	6.75	7.25	0.25	.040	170.82	1.02	.275	.006	6.99	0.15
-441	6.975	7.0	7.5	0.25	.040	177.17	1.02	.275	.006	6.99	0.15
-442	7.225	7.25	7.75	0.25	.045	183.52	1.14	.275	.006	6.99	0.15
-443	7.475	7.5	8.0	0.25	.045	189.87	1.14	.275	.006	6.99	0.15
-444	7.725	7.75	8.25	0.25	.045	196.22	1.14	.275	.006	6.99	0.15
-445	7.975	8.0	8.5	0.25	.045	202.57	1.14	.275	.006	6.99	0.15
-446	8.475	8.5	9.0	0.25	.055	215.27	1.40	.275	.006	6.99	0.15
-447	8.975	9.0	9.5	0.25	.055	227.97	1.40	.275	.006	6.99	0.15
-448	9.475	9.5	10.0	0.25	.055	240.67	1.40	.275	.006	6.99	0.15

-449	9.975	10.0	10.5	0.25	.055	253.37	1.40	.275	.006	6.99	0.15
-450	10.475	10.5	11.0	0.25	.060	266.07	1.52	.275	.006	6.99	0.15
-451	10.975	11.0	11.5	0.25	.060	278.77	1.52	.275	.006	6.99	0.15
-452	11.475	11.5	12.0	0.25	.060	291.47	1.52	.275	.006	6.99	0.15
-453	11.975	12.0	12.5	0.25	.060	304.17	1.52	.275	.006	6.99	0.15
-454	12.475	12.5	13.0	0.25	.060	316.87	1.52	.275	.006	6.99	0.15
-455	12.975	13.0	13.5	0.25	.060	329.57	1.52	.275	.006	6.99	0.15
-456	13.475	13.5	14.0	0.25	.070	342.27	1.78	.275	.006	6.99	0.15
-457	13.975	14.0	14.5	0.25	.070	354.97	1.78	.275	.006	6.99	0.15
-458	14.475	14.5	15.0	0.25	.070	367.67	1.78	.275	.006	6.99	0.15
-459	14.975	15.0	15.5	0.25	.070	380.37	1.78	.275	.006	6.99	0.15
-460	15.475	15.5	16.0	0.25	.070	393.07	1.78	.275	.006	6.99	0.15
-461	15.955	16.0	16.5	0.25	.075	405.26	1.90	.275	.006	6.99	0.15
-462	16.455	16.5	17.0	0.25	.075	417.96	1.90	.275	.006	6.99	0.15
-463	16.955	17.0	17.5	0.25	.080	430.66	2.05	.275	.006	6.99	0.15
-464	17.455	17.5	18.0	0.25	.085	443.36	2.15	.275	.006	6.99	0.15
-465	17.955	18.0	18.5	0.25	.085	456.06	2.15	.275	.006	6.99	0.15
-466	18.455	18.5	19.0	0.25	.085	468.76	2.15	.275	.006	6.99	0.15
-467	18.955	19.0	19.5	0.25	.090	481.46	2.25	.275	.006	6.99	0.15
-468	19.455	19.5	20.0	0.25	.090	494.16	2.25	.275	.006	6.99	0.15
-469	19.955	20.0	20.5	0.25	.090	506.86	2.25	.275	.006	6.99	0.15
-470	20.955	21.0	21.5	0.25	.090	532.26	2.25	.275	.006	6.99	0.15
-471	21.955	22.0	22.5	0.25	.100	557.66	2.55	.275	.006	6.99	0.15
-472	22.940	23.0	23.5	0.25	.105	582.68	2.65	.275	.006	6.99	0.15
-473	23.940	24.0	24.5	0.25	.110	608.08	2.80	.275	.006	6.99	0.15
-474	24.940	25.0	25.5	0.25	.115	633.48	2.90	.275	.006	6.99	0.15
-475	25.940	26.0	26.5	0.25	.120	658.88	3.05	.275	.006	6.99	0.15

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