

**ASTM D2000 M2 HK814 A1-10 B38 EF31 E078**

# RS PRO Imperial Brown FKM 75 ShA O-rings

Fluorocarbon Rubber

FKM O-rings have excellent chemical resistance and can be used at temperature range of between -15°C and 200°C, making them highly suited for applications involving high temperatures.

The terms FPM, FKM and Viton® can lead to incorrect interpretations. These designations stand for one single base material: fluorocarbon rubber. Viton® however is the registered trademark of the Chemours company.

RS Components is also able to supply specially compounded FKM O-rings meeting Norsok M710, FDA, USP Class VI, UL94 V0, EN549, Viton® A, B, G, GF, GLT, GFLT, ETP standards on special request. Please contact us for further information.

*Colour: Brown*

*Operating temperature range: -15°C to 200°C*

Physical Property	Test Method	Units	Typical Values
Hardness	ASTM D 2240	Shore A	79
Tensile Strength	ASTM D 412	Mpa	14
Elongation	ASTM D 412	%	175
Modulus at 100%	ASTM D 412	Mpa	6
Specific Gravity	ASTM D 297	g/cm <sup>3</sup>	1.85
Compression Set 22h / 200°C	ASTM D 395 B	%	22
Low Temperature Resistance	ASTM D 1329 - TR10	°C	-17

Aging Property	Test Method	Time (h)	Temperature (°C)	Hardness	Tensile Strength (%)	Ultimate Elongation (%)	Volume (%)
Air	ASTM D 573	70	250	1	-13	-2	-
ASTM 101 Service Liquid	ASTM D 471	70	200	-10	-15	-6	13
ASTM Fuel C	ASTM D 471	70	23	-4	-21	-7	4

**Chemical resistance:**

- Mineral oil and grease, ASTM oil No. 1, and IRM 902 and IRM 903 oils
- Non-flammable hydraulic fluids (HFD)
- Silicone oil and grease
- Mineral and vegetable oil and grease
- Aliphatic hydrocarbons (butane, propane, natural gas)
- Aromatic hydrocarbons (benzene, toluene)
- Chlorinated hydrocarbons (trichloroethylene and carbon tetrachloride)
- Gasoline (including high alcohol content)
- High vacuum
- Very good ozone, weather and aging resistance

**Not compatible with:**

- Glycol based brake fluids
- Ammonia gas, amines, alkalis
- Superheated steam
- Low molecular weight organic acids (formic and acetic acids)

RS Article Number	Millimetres (mm)				Inches (")				Nominal (Inch Dimensions)		Standard Reference
	Internal Diameter	ID ± Tolerance	Cross Section	CS ± Tolerance	Internal Diameter	ID ± Tolerance	Cross Section	CS ± Tolerance	Internal Diameter	Cross Section	
2563916	4.47	0.15	1.78	0.08	0.176	0.006	0.07	0.003	11/64	1/16	AS568-8 and BS 1806-8
2563968	4.76	0.15	1.78	0.08	0.187	0.006	0.07	0.003	3/16	1/16	BS 1806-8
2563942	7.52	0.17	3.53	0.1	0.296	0.007	0.139	0.004	19/64	1/8	AS568-203 and BS 1806-203
2563926	7.59	0.17	2.62	0.09	0.299	0.007	0.103	0.004	5/16	3/32	AS568-109 and BS 1806-109
2563917	7.65	0.17	1.78	0.08	0.301	0.007	0.07	0.003	5/16	1/16	AS568-11 and BS 1806-11
2563943	12.29	0.21	3.53	0.1	0.484	0.008	0.139	0.004	31/64	1/8	AS568-206 and BS 1806-206

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	Internal Diameter	ID ± Tolerance	Cross Section	CS ± Tolerance	Internal Diameter	ID ± Tolerance	Cross Section	CS ± Tolerance	Internal Diameter	Cross Section	
2563918	12.42	0.21	1.78	0.08	0.489	0.008	0.07	0.003	31/64	1/16	AS568-14 and BS 1806-14
2563927	13.94	0.22	2.62	0.09	0.549	0.009	0.103	0.004	35/64	3/32	AS568-113 and BS 1806-113
2563919	14	0.22	1.78	0.08	0.551	0.009	0.07	0.003	35/64	1/16	AS568-15 and BS 1806-15
2563944	15.47	0.23	3.53	0.1	0.609	0.009	0.139	0.004	5/8	1/8	AS568-208 and BS 1806-208
2563920	15.6	0.23	1.78	0.08	0.614	0.009	0.07	0.003	39/64	1/16	AS568-16 and BS 1806-16
2563945	17.04	0.24	3.53	0.1	0.671	0.009	0.139	0.004	43.64	1/8	AS568-209 and BS 18060
2563969	17.46	0.25	2.62	0.09	0.687	0.01	0.103	0.004	11/16	3/32	BS 1806-810
2563928	20.3	0.27	2.62	0.09	0.799	0.011	0.103	0.004	51/64	3/32	AS568-117 and BS 1806-117
2563930	23.47	0.29	2.62	0.09	0.924	0.011	0.103	0.004	59/64	3/32	AS568-119 and BS 1806-119
2563921	25.12	0.3	1.78	0.08	0.989	0.012	0.07	0.003	1	1/16	AS568-22 and BS 1806-22
2563931	26.64	0.31	2.62	0.09	1.049	0.012	0.103	0.004	1 3/64	3/32	AS568-121 and BS 1806-121
2563965	27.94	0.32	5.33	0.13	1.1	0.013	0.21	0.005	1 3/32	3/16	AS568-320 and BS 1806-320

	Millimetres (mm)				Inches (")				Nominal (Inch Dimensions)		
RS Article Number	Internal Diameter	ID ± Tolerance	Cross Section	CS ± Tolerance	Internal Diameter	ID ± Tolerance	Cross Section	CS ± Tolerance	Internal Diameter	Cross Section	Standard Reference
2563946	28.17	0.32	3.53	0.1	1.109	0.013	0.139	0.004	1 7/64	1/8	AS568-216 and BS 1806-216
2563947	29.74	0.34	3.53	0.1	1.171	0.013	0.139	0.004	1 11/64	1/8	AS568-217 and BS 1806-217
2563932	29.82	0.34	2.62	0.09	1.174	0.013	0.103	0.004	1 11/64	3/32	AS568-123 and BS 1806-123
2563922	31.47	0.35	1.78	0.08	1.239	0.014	0.07	0.003	1 15/64	1/16	AS568-26 and BS 1806-26
2563948	34.52	0.37	3.53	0.1	1.359	0.015	0.139	0.004	1 23/64	1/8	AS568-220 and BS 1806-220
2563923	34.65	0.37	1.78	0.08	1.364	0.015	0.07	0.003	1 23/64	1/16	AS568-28 and BS 1806-28
2563949	40.87	0.42	3.53	0.1	1.609	0.017	0.139	0.004	1 5/8	1/8	AS568-223 and BS 1806-223
2563950	44.04	0.44	3.53	0.1	1.734	0.017	0.139	0.004	1 47/64	1/8	AS568-224 and BS 1806-224
2563924	44.17	0.44	1.78	0.08	1.739	0.017	0.07	0.003	1 47/64	1/16	AS568-31 and BS 1806-31
2563966	46.99	0.46	5.33	0.13	1.85	0.018	0.21	0.005	1 27/32	3/16	AS568-328 and BS 1806-328
2563933	48.9	0.47	2.62	0.09	1.925	0.019	0.103	0.004	1 59/64	3/32	AS568-135 and BS 1806-135

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	Internal Diameter	ID ± Tolerance	Cross Section	CS ± Tolerance	Internal Diameter	ID ± Tolerance	Cross Section	CS ± Tolerance	Internal Diameter	Cross Section	
2563967	50.17	0.48	5.33	0.13	1.975	0.019	0.21	0.005	2	3/16	AS568-329 and BS 1806-329
2563951	50.39	0.48	3.53	0.1	1.984	0.019	0.139	0.004	2	1/8	AS568-226 and BS 1806-226
2563952	53.57	0.51	3.53	0.1	2.109	0.02	0.139	0.004	2 1/8	1/8	AS568-227 and BS 1806-227
2563934	58.42	0.54	2.62	0.09	2.3	0.021	0.103	0.004	2 19/64	3/32	AS568-141 and BS 1806-141
2563953	59.92	0.55	3.53	0.1	2.359	0.022	0.139	0.004	2 23/64	1/8	AS568-229 and BS 1806-229
2563954	63.09	0.57	3.53	0.1	2.484	0.022	0.139	0.004	2 31/64	1/8	AS568-230 and BS 1806-230
2563925	63.22	0.57	1.78	0.08	2.489	0.022	0.07	0.003	2 31/64	1/16	AS568-37 and BS 1806-37
2563936	71.12	0.63	2.62	0.09	2.8	0.025	0.103	0.004	2 13/16	3/32	AS568-149 and BS 1806-149
2563955	75.79	0.66	3.53	0.1	2.984	0.026	0.139	0.004	2 63/64	1/8	AS568-234 and BS 1806-234
2563937	75.87	0.66	2.62	0.09	2.987	0.026	0.103	0.004	2 63/64	3/32	AS568-151 and BS 1806-151
2563956	78.97	0.68	3.53	0.1	3.109	0.027	0.139	0.004	3 7/64	1/8	AS568-235 and BS 1806-235

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	Internal Diameter	ID ± Tolerance	Cross Section	CS ± Tolerance	Internal Diameter	ID ± Tolerance	Cross Section	CS ± Tolerance	Internal Diameter	Cross Section	
2563958	85.32	0.72	3.53	0.1	3.359	0.028	0.139	0.004	3 23/64	1/8	AS568-237 and BS 1806-237
2563959	88.49	0.75	3.53	0.1	3.484	0.03	0.139	0.004	3 1/2	1/8	AS568-238 and BS 1806-238
2563960	91.67	0.77	3.53	0.1	3.609	0.03	0.139	0.004	3 5/8	1/8	AS568-239 and BS 1806-239
2563961	94.84	0.79	3.53	0.1	3.734	0.031	0.139	0.004	3 3/4	1/8	AS568-240 and BS 1806-240
2563938	94.92	0.79	2.62	0.09	3.737	0.031	0.103	0.004	3 47/64	3/32	AS568-154 and BS 1806-154
2563939	101.27	0.83	2.62	0.09	3.987	0.033	0.103	0.004	4	3/32	AS568-155 and BS 1806-155
2563962	117.07	0.94	3.53	0.1	4.609	0.037	0.139	0.004	4 39/64	1/8	AS568-247 and BS 1806-247
2563940	126.67	1	2.62	0.09	4.987	0.039	0.103	0.004	4 63/64	3/32	AS568-159 and BS 1806-159
2563964	145.64	1.13	3.53	0.1	5.734	0.044	0.139	0.004	5 3/4	1/8	AS568-256 and BS 1806-256