

ASTM D2000 M2 HK814 A1-10 B38 EF31 E078

RS PRO Metric 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/cm3	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 (")				Standard Reference
	Internal Diameter	ID ± Tolerance	Cross Section	CS ± Tolerance	Internal Diameter	ID ± Tolerance	Cross Section	CS ± Tolerance	
2562326	6	0.16	1	0.08	0.236	0.006	0.039	0.003	
2562325	6.5	0.16	1	0.08	0.255	0.006	0.039	0.003	
2562307	14	0.22	1	0.08	0.551	0.008	0.039	0.003	
2562313	28	0.32	1	0.08	1.102	0.012	0.039	0.003	
2562327	7	0.17	1.5	0.08	0.275	0.006	0.059	0.003	
2562328	8	0.17	1.5	0.08	0.314	0.006	0.059	0.003	
2562302	10	0.19	1.5	0.08	0.393	0.007	0.059	0.003	
2562331	95	0.79	1.5	0.08	3.74	0.031	0.059	0.003	
2562330	9.1	0.18	1.6	0.08	0.358	0.007	0.062	0.003	BS 4518-0091-16 and SMS1588-S9.1x1.6
2562323	4	0.14	2	0.08	0.157	0.005	0.078	0.003	
2562309	15	0.23	2	0.08	0.59	0.009	0.078	0.003	
2562316	34	0.37	2	0.08	1.338	0.014	0.078	0.003	

RS Article Number	Millimetres (mm)				Inches (")				Standard Reference
	Internal Diameter	ID ± Tolerance	Cross Section	CS ± Tolerance	Internal Diameter	ID ± Tolerance	Cross Section	CS ± Tolerance	
2562306	148	1.15	2	0.08	5.826	0.045	0.078	0.003	
2562303	11.3	0.2	2.2	0.08	0.444	0.007	0.086	0.003	ISO 6149-M14x1.5
2562304	11	0.2	2.5	0.09	0.433	0.007	0.098	0.004	
2562324	55	0.52	2.5	0.09	2.165	0.02	0.098	0.004	
2562329	8	0.17	3	0.09	0.314	0.006	0.118	0.004	
2562305	11	0.2	3	0.09	0.433	0.007	0.118	0.004	
2562310	19	0.26	3	0.09	0.748	0.01	0.118	0.004	
2562311	20	0.26	3	0.09	0.787	0.01	0.118	0.004	
2562312	25	0.3	3	0.09	0.984	0.011	0.118	0.004	
2562317	37	0.39	3	0.09	1.456	0.015	0.118	0.004	
2562321	43	0.43	3	0.09	1.692	0.016	0.118	0.004	
2562318	39	0.4	3.5	0.1	1.535	0.015	0.137	0.004	
2562319	41.7	0.42	3.5	0.1	1.641	0.016	0.137	0.004	ISO 6149-P42
2562314	30	0.34	5	0.13	1.181	0.013	0.196	0.005	
2562315	32	0.35	5	0.13	1.259	0.013	0.196	0.005	
2562322	44	0.44	6	0.13	1.732	0.017	0.236	0.005	