

AF1604 Data Sheet F800-B85-RGD FPM F800-RGD – Black (Peroxide Cross Linked)

.....

General

F800-B85-RGD is a black fluorocarbon rubber, with excellent physical characteristics and chemical resistance to the most common hydraulic fluids, sour oils/gases (H2S) and crude oils. F800-B85-RGD has been optimised to withstand the risk of rapid gas decompression (RGD) or explosive decompression (ED) which is an essential demand in the oil and gas industry.

Physical properties

Density	DIN 53479	g/cm ³	2,26
Hardness at 20°C	DIN 53505	Shore A	86
100% Modulus	DIN 53504	N/mm ²	4,4
Tensile strength	DIN 53504	N/mm ²	6,8
Elongation at break	DIN 53504	%	305
Tear strength, trouser test	ISO 34-1A	kN/m	7,8
Rebound resilience	DIN 53512	%	8
Compression set: 175°C, 24hr*	DIN 53517	%	21,5
Min. service temperature		C°	-25
Max. service temperature		C°	210

*25% deflection.

Chemical resistance

Resistant to	Oil, fuels, hydrocarbons, hydrogen sulphide, ozone
Not resistant to	Methanol, nitric acid, acetone

Main application

Static and dynamic seals, O-Rings, flange seals, rubber energisers (preload elements) in the oil and gas industry, especially in applications with high gas pressure.

Rapid Gas Decompression (RGD) validation

The compound has passed the RGD test at MERL UK with a rating of 1000. Test conditions, according Norsok M-710, were 10 decompressions cycles with 90% Methane + 10% Carbon dioxide gas at 100°C and 150 bar test pressure. A certificate is available on request.

Analysis and evaluation

The mentioned properties are only valid for test pieces of the corresponding ISO, DIN and ASTM standards. They cannot be directly related to seals, gaskets and other sealing products and should be used only as a general guide. Contact with improper fluids might influence the application properties.

Issued July 2013 AFT Fluorotec Technical Department. All information is based on typical test results performed under specific conditions and limited sample size. This does not represent a legally binding guarantee of certain properties or the suitability for specific applications.

AFT Fluorotec

Solutions and components in Fluoropolymer Plastics

Phone:	+44 (0) 1992 515880
Fax:	+44 (0) 1992 554490
Email:	info@fluorotec.com
Website:	www.fluorotec.com

Unit 2, Pages Old Mill Tamworth Road Hertford Herts. SG13 7DG