

AF1302 Data Sheet HN900-B85-RGD

H-NBR HN900 – Black (Peroxide Cross Linked)

General

HN900-B85-RGD is a black hydrogenated acrylonitrile-butadiene-rubber commonly referred to as H- NBR. Good physical characteristics and chemical resistance to the most common hydraulic fluids, high addivated oils, sour oils/gases (H₂S) and crude oils. HN900-B85-RGD has been optimized 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	1,3
Hardness at 20°C	DIN 53505	Shore A	88
100% Modulus	DIN 53504	N/mm ²	8,3
Tensile strength	DIN 53504	N/mm ²	23,2
Elongation at break	DIN 53504	%	260,5
Tear strength	ISO 34-1	kN/m	5,1
Rebound resilience	DIN 53512	%	29
Compression set: 70°C, 24hr *	DIN 53517	%	13,4
Compression set: RT, 72hr *	DIN 53517	%	18,9
Compression set: 150°C, 24hr *	DIN 53517	%	22,7
Min. service temperature		°C	-20
Max. service temperature		°C	150

*Compression set: 25% deflexion

Chemical Resistance

Water up to 90°	R	Vegetable Oils	R
Sea Water	R	Silicone Oils	R
Steam	U	Biodegradable Oils	R
HFA, HFB fluids	R	Fuels	S
HFC fluids	S	Ozone, Oxygen (cold)	R
HFD fluids	U	Air up to 100°	R
Mineral Oils	R	Air up to 150°	U

Key to chemical resistance: R = resistant S = suitable U = unsuitable

Main application

Static and dynamic seals (standard and special), wipers, O-rings, back-up rings, flange seals, rotary seals, low friction and wear, high extrusion resistance, compatibility with water, excellent low temp. characteristics.

Analysis and Evaluation

The properties relate to fundamental values for polyurethane products. Values mentioned above are corresponding to ASTM or DIN standards and have been tested on standardized plates in the laboratory. All immersion tests are made under laboratory conditions.

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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. All information is provided in good faith at time of print.

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