

## AF1202 Data Sheet N109-B95

### NBR-95 N109 – Black (Sulphur Cross Linked)

#### General

N109-B95 is a black Nitrile Butadiene Rubber commonly referred to as NBR, Nitrile or BUNA. Good physical characteristics and chemical resistance to the most common hydraulic fluids makes NBR an excellent sealing material. NBR materials are one of the most used elastomers in sealing applications.

#### Physical Properties

Density:	DIN 53479	g/cm <sup>3</sup>	1,27
Hardness at 20°:	DIN 53505	Shore A	95 +/-5
Tensile strength:	DIN 53504	N/mm <sup>2</sup>	20,1 +/-15%
Elongation at break:	DIN 53504	%	61 +/-20%
Modulus 100%:	DIN 53504	N/mm	–
Tear strength	DIN 53507B	N/mm	3,0
Compression set: 70h/RT	DIN 53517A	%	13 +/-20%
Compression set: 22h/70°C	DIN 53517A	%	16 +/-20%
Compression set: 22h/100°C	DIN 53517A	%	16 +/-20%
Min. service temperature:		°C	-25
Max. service temperature:		°C	100

#### Chemical Resistance

Water up to 70°	R	R Diesel Fuel	R
Water up to 90°	S	S Gasoline Fuel	S
Steam	U Air up to 100°	U Alcohols	R
HFA, HFB, HFC Fluids	R	R Ozone, Oxygen	U
HFD Fluids	U Air up to 100°	U Air up to 100°	R
Mineral/Vegetable Oils	R	R Air up to 150°	U
Silicone oils	S		

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

#### Main application

Static and dynamic seals (standard and special), wipers, O-rings, flange seals, rotary seals, rubber energizers (preload elements). General applications in petroleum fluids, water, greases, mineral oils.

#### 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.

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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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