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Material Data Sheet	Material Code	N70J	Issue 1 Revision 1
	Designation	NBR	October 2005

**MATERIAL TYPE:** Peroxide cured Nitrile Butadiene Rubber (NBR), 66-75 °IRHD. Copolymer of acrylonitrile and butadiene. To meet DTD 5594A standard for resistance to mineral oils.

**APPLICATION:** Excellent resistance in sealing applications for mineral oils. Excellent compression set, tear and abrasion resistance. Good water resistance but poor against ozone and weather.

TEMPERATURE RANGE:	Maximum temperature: +120°C (+248°F)	).
	Minimum temperature: -30°C (-22°F).	

STORAGE RECOMMENDATION: Initial storage = 7 years, extended storage = 3 years.

TYPICAL PHYSICAL PROPERTIES:							
Property	Unit	Test Method		Typical Value			
Hardness (points)	°IRHD	ASTM D 1415	(=ISO 48)	73			
Tensile strength	MPa	ASTM D 412	(=ISO 37)	9.0			
Elongation at break	%	ASTM D 412	(=ISO 37)	200			
Compression Set, Method B;							
24 hours at 100°C (212°F)	%	ASTM D 395	(=ISO 815)	30			
Heat Resistance;							
168 hours at 100°C (212°F)		ASTM D573	(=ISO 188)				
Hardness change (points)	°IRHD	ASTM D 1415	(=ISO 48)	+6			
Tensile strength change	%	ASTM D 412	(=ISO 37)	+25			
Elongation at break change	%	ASTM D 412	(=ISO 37)	-16			
Low Temperature Resistance;							
Temperature at which modulus							
shall not exceed 70Mpa	°C			-25			

HEALTH & SAFETY DATA: No known hazard exists if used in accordance with the temperature range as quoted.

## FIRE HAZARD: Ignition temperature >300°C (572°F).

Thermal decomposition will generate carbon dioxide, carbon monoxide, hydrocarbons, nitrogen compounds and hydrogen cyanide. In the event of a fire, fire fighters must wear self-contained breathing apparatus and a protective suit. Extinguish with water, foam, carbon dioxide or dry chemical.

**DISPOSAL:** Must conform to national, state and/or local regulations. Landfill is recommended. Burning is not recommended, unless conducted by an approved/licensed incineration agency.

**SPECIAL NOTE:** This information is to the best of our knowledge accurate and reliable. However, PPE make no warranty, expressed or implied, that parts manufactured from this material will perform satisfactorily in the customer's application. It is the customer's responsibility to evaluate parts prior to use, especially in applications where their failure may result in injury and/or damage. It should also be noted that all elastomeric parts have a finite life, therefore a regular program of inspection and replacement is strongly recommended.