



Technical Data

Nitrile Rubber Sheet
(Nitri65 Pro)

Nitri65 Pro

Model: RS-NITR(P)-NBR14065

Nitri65 Pro is a nitrile rubber sheet formulated with 50% NBR content, developed for industrial settings where continuous exposure to oils, fuels, and mild chemicals is common. It offers reliable mechanical strength, compression set resistance, and material stability under moderate thermal stress.

The compound maintains its sealing, insulating, and structural properties over extended use, making it applicable in engine compartments, hydraulic zones, & fuel handling systems. Designed for durability and functional performance in mid-to-heavy-duty service conditions.

With its balanced oil resistance and consistent performance under mechanical and thermal stress, Nitri65 Pro supports reduced maintenance frequency and increased service life in operational setups.

It is ideal for environments where full-grade nitrile is not essential but steady resistance to hydrocarbon media and reliable performance are required. Users benefit from stable sealing efficiency, cost-effective material planning, and reduced downtime across standard industrial applications.

PRODUCT FEATURES



Resistant to hydrocarbon exposure

Maintains physical integrity in contact with oils, greases, and fuel mixtures



Low compression set characteristics

Supports effective long-term sealing in flanged or bolted joints



Performs under mechanical flexing

Suitable for dynamic assemblies subject to moderate movement or vibration



Moderate thermal endurance

Withstands intermittent exposure to elevated operating temperatures without degradation



Compatible with industrial fluids

Resistant to common process fluids including mild acids, alkalis, & solvents



Uniform thickness and density

Ensures dimensional accuracy and ease of processing for cut gaskets and liners



DID YOU KNOW?

Nitrile rubber can withstand petroleum oil concentrations up to 90%, outperforming natural rubber and many synthetics in fuel-resistant applications, which is why it's the standard for automotive fuel lines.

(Source: Source: ASTM D2000)



MEASURED PROPERTIES	TESTING STANDARD	SPECIFIED VALUES	OBSERVED VALUES	
PHYSICAL & MECHANICAL PROPERTIES				
Tensile Strength	ASTM D412	5.0 MPa (Min)	5.5 MPa	
Elongation at Break	ASTM D412	250% (Min)	267%	
Hardness	ASTM D2240	65° ± 5° Shore A	67° Shore A	
Specific Gravity	ASTM D297	1.40 ± 0.05	1.42	
Working Temperature	-	-30 °C to +90 °C	Conforms	
CHEMICAL RESISTANCE				
Ozone	Dilute Acids & Bases	Conc. Acids & Bases	Oils	Solvents
Fair	Good	Not Recommended	Good	Fair
IDENTIFICATION				
Branding	Duratuf			
Colour	Black			
Grade	Pro			
Polymer	Nitrile (NBR)			
Polymer Content	50%			
Finish	Top & bottom plain			
Packaging	With white coloured HDPE woven fabric			
Labelling	Label indicating Product Name, Dimensions, Batch No., Mfg. Month & Year, Quantity, and Package No. to allow traceability			

Note: Manufacturing tolerance of ± 10% on thickness, ± 2% on width and length and ±10% on weight shall be applicable.

Applications	<ul style="list-style-type: none"> Fuel system gasket and seal manufacturing Heavy-duty oil-resistant flooring in plants Pipe wrapping in chemical plants Compressor and engine gasket liners Anti-vibration and anti-slip base pads Oil pan sealing in machinery Conveyor skirting in medium-duty conveyors
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