

EnDura® A90H

Rubber

Precision Polymer Engineering Ltd.

Message:

A90H is a high performance, explosive decompression resistant, elastomer formulated using Aflas ® FA-100H for the demanding sealing applications experienced in the oil and gas exploration and extraction industry.

A90H exhibits similar thermal stability to fluoroelastomer (FKM) grades but offers a different chemical resistance profile.

A90H provides particularly high resistance to acids, amines, steam, brine, sour oil and gas (H₂S).

Key Attributes

Excellent resistance to Explosive Decompression

Tested to NACE TN0297

Resistant to high pressure CO₂ gas

Ideal for prolonged exposure to steam

Short-term high temperature capability up to 290°C (554°F)

Excellent resistance to fluids with high H₂S concentration

Typical Applications

High temperature pumps

Safety valves

Logging equipment

Completion and production equipment

General Information			
Features	Copolymer		
	acid resistance		
	Oil resistance		
	Steam resistance		
Uses	Pump parts		
	Valve/valve components		
	High temperature application		
	Oil/Gas Supplies		
Appearance	Black		
Hardness	Nominal Value		Test Method
IRHD Hardness	93		ASTM D1415, ISO 48
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			
50% strain	13.5	MPa	
100% strain	17.5	MPa	
Tensile Strength (Yield)	19.0	MPa	ASTM D412, ISO 37
Tensile Elongation (Break)	130	%	ASTM D412, ISO 37
Compression Set (200°C, 24 hr)	32	%	ASTM D395, ISO 815
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (200°C, 72 hr)	3.0	%	ASTM D412, ISO 37

Change in Ultimate Elongation in Air (200°C, 72 hr)	-15	%	ASTM D412, ISO 37
Change in IRHD Hardness in Air (200°C, 72 hr)	0.0		ASTM D573, ISO 188
Thermal	Nominal Value	Unit	
Maximum Operating Temperature	250	°C	
Additional Information			
Minimum Operating Temperature (static): 0°C (+32°F)			

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