

HY121

HY121 offers the advantages of a low friction material with excellent wear resistance at very low dew points. The material has a high modulus and strength and low thermal expansion, giving good creep resistance at high temperatures and loads. HY121 is typically used in bone dry applications such as air separation, technical gases, storage, boil-off and in cryogenic applications.

Physical Properties

Property	Method	Value
COTE - Radial x 10-6/C (20-200 °C)	ASTM D696	36.9
COTE - Axial x 10-6/C (20-200 °C)	ASTM D696	38.6
Maximum operating temperature (°C)	-	200
Density (g/cm ³)	ASTM D792-00	2.03
Shore D Hardness	ASTM D2240-04	75
Tensile strength at break (MPa)	ASTM D638-03	27
Elongation at break (%)	ASTM D638-03	0.5

Operating range

Max. Gas Temperature (°C)		Max. Pressure (bar)			
Discharge	Design	Packing Discharge		Cylinder Ring Diff.	
		Non-Lube	Lube	Non-Lube	Lube
200	150	150	-	50	-

Operating restriction for oxygen-service: Compression ratio up to 3 and max. temperature 225°C

Air

Industrial Gases

Natural Gas

Refinery

Olefins

Alcohols

Chemicals

Refrigeration