

HY538

This specially formulated low creep PTFE compound is intended primarily for gas compressor rod packings, piston rings and rider bands in non-lube conditions where the gas is dry or bone dry with a dew point of -60°C or lower. This material should be used in those situations where the differential gas pressure is less than 50 bar. At differential pressures greater than 50 bar where higher creep resistance is required, HY101 should be used.

Physical Properties

Property	Method	Value
COTE - Radial x 10-6/C (20-200 °C)	ASTM D696	70
COTE - Axial x 10-6/C (20-200 °C)	ASTM D696	120
Maximum operating temperature (°C)	-	200
Density (g/cm3)	ASTM D792-00	1.78± 0.05
Shore D Hardness	ASTM D2240-04	64 ± 2
Tensile strength at break (MPa)	ASTM D638-03	9.1 ± 1.0
Elongation at break (%)	ASTM D638-03	75.0 ±4.3

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