HY60

HY60 is a well-proven filled PTFE grade that provides consistent performance in pure or oxygen rich compressor applications, and is WHA certified for use in oxygen gas appliances. HY60 hasbeen developed utilizing fillers specifically chosen for oxygen duty. This grade is unique in the industry for this application.

Physical Properties

Property	Method	Value
COTE - Radial x 10-6/C (20-200 °C)	ASTM D696	61.5
COTE - Axial x 10-6/C (20-200 °C)	ASTM D696	104
Density (g/cm3)	ASTM D792	2.34
Shore D Hardness	ASTM D2240	59
Tensile strength at break (MPa)	ASTM D638	23
Elongation at break (%)	ASTM D638	220

Operating range

Max. Gas Temperature (°C)		Max. Pressure (bar)			
Discharge	Design	Packing Discharge		Cylinder Ring Diff.	
		Non-Lube	Lube	Non-Lube	Lube
200	165	300 (#)	450	#	250

Operating limits in oxygen service

Max. Temperature (°C)	Max. Oxygen Pressure (bar)	Compression Ratio
175	100	100

Tested according to DIN EN 1797 and ISO 21010

Air

Industrial Gases

Natural Gas

Refinery

Olefins

Alcohols

Chemicals

Refrigeration

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All values are approximate and subject to change without notification.

The maximum material design temperature is calculated by considering suction and discharge conditions, machine speed, cooling and loading. Typically: Tdesign = Tsuction + 2/3(Tdischarge – Tsuction). Additional operating conditions need to be considered when making material selections. The data presented are guidelines only; consult HOERBIGER to ensure the correct material is specified.

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