

## HY52

HY52 works well in most air compressor applications and is known for its continuous outstanding performance in non-lubricated applications. The combination of toughness, resistance to extrusion, high heat transfer coefficient, and flexibility to stretch over a piston, makes HY52 a versatile material. We recommend this grade to our customers for non-lubricated and lubricated applications where extrusion resistance is needed. HY52 is WHA certified for use in oxygen compression.

### Physical Properties

Property	Method	Value
COTE - Radial x 10-6/C (20-200 °C)	ASTM D696	70.9
COTE - Axial x 10-6/C (20-200 °C)	ASTM D696	79.5
Maximum operating temperature (°C)	-	200
Density (g/cm <sup>3</sup> )	ASTM D792	3.85
Shore D Hardness	ASTM D2240	62.5
Tensile strength at break (MPa)	ASTM D638	17.5
Elongation at break (%)	ASTM D638	160

### Operating range

Max. Gas Temperature (°C)		Max. Pressure (bar)			
Discharge	Design	Packing Discharge		Cylinder Ring Diff.	
		Non-Lube	Lube	Non-Lube	Lube
220	165	100	175	50	-

### Operating limits in oxygen service

Max. Temperature (°C)	Max. Oxygen Pressure (bar)	Compression Ratio
175	100	≤3

Tested according to ASTM G72, ASTM G114 and ISO 21010

Air

Industrial Gases

Natural Gas

Refinery

Olefins

Alcohols

Chemicals

Refrigeration

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