

HZ-3

HZ-3 is engineered for standard non-lube air applications, like the last stage of PET compressors.

Physical Properties

Property	Method	Value
COTE - Radial x 10 ⁻⁶ /C (20-200 °C)	ASTM D696	106.4
COTE - Axial x 10 ⁻⁶ /C (20-200 °C)	ASTM D696	119.3
Density (g/cm ³)	ASTM D792	3.78
Shore D Hardness	ASTM D2240	64.2
Tensile strength at break (MPa)	ASTM D638	14.5
Elongation at break (%)	ASTM D638	45

Air

Industrial Gases

Natural Gas

Refinery

Olefins

Alcohols

Chemicals

Refrigeration

Operating range

Max. Gas Temperature (°C)		Max. Pressure (bar)			
Discharge	Design	Packing Discharge		Cylinder Ring Diff.	
		Non-Lube	Lube	Non-Lube	Lube
180	120	50	-	35	-

Operating restriction for oxygen-service: Compression ratio up to 3

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: $T_{design} = T_{suction} + 2/3(T_{discharge} - T_{suction})$. 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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