

GuideTech TA100 Series

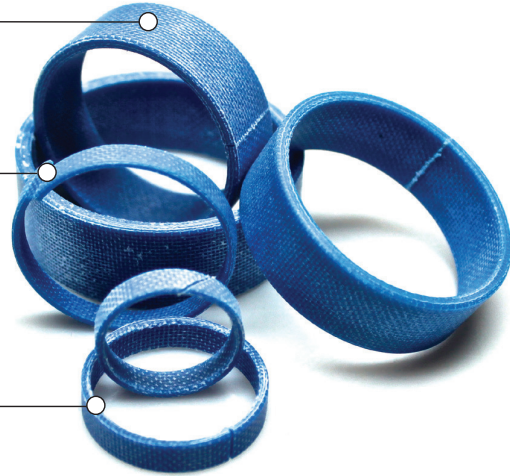
DESCRIPTION

The GuideTech TA100 Series wear ring is comprised of a polyester fabric reinforced with a polyester resin. It is designed to be used in hydraulic cylinders to provide proper guidance of the cylinder components ensuring smooth operation. The GuideTech TA100 Series thermoset composite matrix excels in handling high side loads, exceeding the load capabilities of other popular thermoplastic wear ring materials.

Dimensional stability
in water-based fluids

High-strength
synthetic fabric
specifically designed
to provide maximum
load bearing capability

Added lubricants
to minimize friction



PRODUCT BENEFITS

- Wide range of sizes on demand
- Excellent load bearing capability
- No metallic scoring
- Will not swell in water
- Machined to precision tolerances

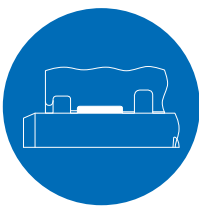
APPLICATIONS

TA100 wear rings are particularly suitable for general medium & heavy duty hydraulic cylinders requiring high load capability and low friction.

Typical applications include:

- Bending/balancing cylinders in rolling mills
- Long wall roof support cylinders
- Injection molding machines

INSTALLATION DRAWINGS



Rod



Piston

MATERIAL

Material: Polyester Resin Fabric

Code: TA100

OPERATING PARAMETERS

Temperature	-40...+120° C -40...+248° F	
Hardness	55 to 80	Rockwell M
Hardness D	80	DIN 53505
C o Friction	0.08-0.15	Internal
Density	1.25 g/cm ³	DIN 53479
Tensile Strength – Lengthwise	90 N/mm ² 13000 psi	DIN 53504
Tensile Strength – Crosswise	76 N/mm ² 11000 psi	DIN 53504
Compression Strength ⊥ to Laminate	345 N/mm ² 50000 psi	
Compression Strength = to Laminate	138 N/mm ² 20000 psi	
Flexural Strength ⊥ to Laminate	138 N/mm ² 20000 psi	
Flexural Strength = to Laminate	107 N/mm ² 15500 psi	
Shear Strength	134 N/mm ² 19500 psi	
Water Absorption	<0.1%	
Coefficient of thermal Expansion	20 to 100° C	
	= to Laminate	6 to 7 X 10 ⁻⁵
	⊥ to Laminate	12 to 13 X 10 ⁻⁵