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Datasheet AS TEHT

AS TEHT is a wrapped steel bearing based on a spring plate, treated by quenching and rubbing technique. It is designed to replace the common bearing steel bushings. It has a mezzo hardness, high capability of press load and good resistance to wear. When pressed into the housing, the bushing will be fixed by its elasticity. It is a maintenance free dry sliding bearing according DIN 1498/1499. The TEHT bearing has good sliding and wear behavior and is able to operate under extreme load with medium velocity. High impact loads are possible. The bearing is a very economical solution for many applications. The TEHT bearing has to be lubricated with sufficient lubricant.

AS TEHT is available from 14 mm up to 105 mm shaft diameter. Bigger sizes available on request.

AS TEHT is used a material for bearings in for example engineering machines, rod level or gas engines.

(1): Hardness rockwell: HRM.
(2): Hardness rockwell: HRC.
(3): Coefficient of friction dynamic: oil/grease.

Material	
Material	Steel

Availability	Unit	Value
Min. inside diameter	mm	8
Max. outside diameter	mm	305
Length standard	mm	120 (longer on request)

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Physical Properties	Test Standard	Unit	Value
Density	ASTM D792	g/cm^3	-
Max. swell in water at 20 °C	ASTM D570	%	-

Mechanical Properties	Test Standard	Unit	Value
Compressive strength static	ASTM D695	MPa	650
Compressive strength dynamic	ASTM D695	MPa	100
Module of elasticity	ASTM D695	MPa	-
Tensile strength	ASTM D3410	MPa	-
Shear strength	ASTM D3410	MPa	-
Impact strength	ASTM D256	kJ/m^2	-
Hardness rockwell	ASTM D785	HRM/HRC	48 (2)

Thermal Properties	Test Standard	Unit	Value
Thermal expansion	ASTM D696	*10^-5/ °C	-
Min. working temperature		°C	-
Max. working temperature		°C	-
Intermittent working temperature		°C	-

Friction Properties	Test Standard	Unit	Value
Coefficient of friction dynamic	Pin-on-ring	Dry against steel	0.18 (3)
Max. sliding speed	Pin-on-ring	m/s	0.1
Max. pv load dry	Pin-on-ring	MPa*m/s	-
Max. pv load oil lubricated	Pin-on-ring	MPa*m/s	-
Max. pv load regular greased	Pin-on-ring	MPa*m/s	-
Wear factor	Pin-on-ring	*10^-9 m^2/N	-