NWB®

High Performance Bearing Technology

1.4301 / 1.4401 STEEL WITH PTFE LINING

Properties

Excellent sliding and wear behaviour, high load capacity, shock resistant, chemically resistant against acids and bases (ph-value 0-14), corrosion resistant, maintenance-free.



Materials

Support material	1.4301 / 1.4401
Sliding layer	PTFE

Material Properties

Specific load capacity static	≤ 250 N/mm²
Specific load capacity dynamic	≤ 140 N/mm² at low sliding speeds
Sliding speed	≤ 2,0 m/s
Friction value	0.02 to 0.20 µ
Temperature strain	-200 to +280 °C
Max. Pv - value	1,8 [N/mm² x m/s] for a short time 3,6

Mounting advise

Housing – Ø

Mounting bevel, min. 1,5 mm x 15-45°

Shaft

Mounting bevel, 5 mm x 15°, edges rounded

Force fitting mandrel

The application of an adequate force fitting mandrel is advisable. Maybe grease lubrication of the outer surface is necessary when mounting.

Stick in

Adhesive must not contact the sliding surface.

Shaft material

Steel, hardened or untempered, surface roughness ≤ Rz 2-3

Tolerance details

Housing – Ø	H7
Bushing after mounting	in the range of H
Shaft tolerance	f7 to h8

Maintenance

Dry sliding bearing with PTFE sliding layer. Lubrication is therefore not necessary, but basically possible.

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