



SPECIAL
MATERIALS
OIL, GAS & CPI

BÖHLER L718API 150K

THE NEXT GENERATION OF ALLOY 718

The answer to high pressure
high temperature requirements



YOUR PARTNER FOR INNOVATION OFFERS THE NEXT GENERATION OF ALLOY 718: **BÖHLER L718API-150K**

- » High strength version with 150ksi YS
- » No change in chemistry
- » Variation of aging process

	BÖHLER L718API	BÖHLER L718API 150K
Heat treatment solution annealing	1021°C – 1052°C (1870°F – 1925°F) 1h – 2.5h	1021°C – 1052°C (1870°F – 1925°F) 1h – 2.5h
Heat treatment age hardening	774°C – 802°C (1425°F – 1475°F) 6h – 8h	700°C – 750°C (1292°F – 1382°F) / 8h → 600°C – 650°C (1112°F – 1202°F) / 8h
	BÖHLER L718API	BÖHLER L718API 150K
Yield strength	min. 120ksi – max. 145ksi (min. 827 MPa – max. 1000 MPa)	min. 150ksi – max. 175ksi (min. 1034 MPa – max. 1206 MPa)
Tensile strength	≥ 1034 MPa / 150ksi	≥ 1206 MPa / 175ksi
Elongation	≥ 20%	≥ 20%
Reduction of Area	≥ 35% / ≥ 25% (>10")	≥ 35% / ≥ 25% (>10")

- » **Corrosion resistance in H₂S service has been evaluated successfully by**
 - SCC-, GHSC-, SSC-testing with max. 45 HRC
 - Sulfide stress cracking (SSC) – 30 days
 - Galvanically induced Hydrogen Stress Cracking (GHSC) – 30 days
 - Stress-corrosion cracking (SCC) – 90 days
- » **All other mechanical and thermophysical properties stay the same**
- » **Successfully NACE MR0175 / ISO 15156 balloted**
- » **API approved**

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ONE STEP AHEAD.