

material no.: 2.4360
 UNS no.: N04400
 designation: Alloy 400

CHEMICAL REQUIREMENTS IN (%)

| | ASTM B164/564 | VdTÜV Werkstoffblatt 263 | DIN 17743 |
|----------|---------------|-----------------------------|------------------|
| Ni, min | 63,0 | 63,00 | Ni + Co, min. 63 |
| Cu | 28,0 - 34,0 | 28,0 - 34,0 | 28 - 34 |
| Fe | 2,5 max. | 1,00 - 2,50 | 1,0 - 2,5 |
| Mn, max. | 2,0 | 2,00 | 2,0 |
| C, max. | 0,3 | 0,16 | 0,15 |
| Si, max. | 0,5 | 0,50 | 0,5 |
| S, max. | 0,024 | 0,020 | 0,02 |
| Al, max. | | 0,50 | 0,5 |
| Ti, max. | | | 0,3 |

MECHANICAL PROPERTIES

| | annealed | bar | forging | bar / forging | bar |
|-------------------------|----------|-----------|-----------|---------------|------------------------|
| | | ASTM B164 | ASTM B564 | | D ≤ 55 mm DIN 17752 |
| R _m (MPa) | ≥ 480 | ≥ 483 | 450 - 600 | ≥ 450 | |
| R _{p0,2} (MPa) | ≥ 170 | ≥ 172 | ≥ 175 | ≥ 180 | |
| R _{p1,0} (MPa) | | | | ≥ 210 | |
| A (%) | ≥ 35 | ≥ 35 | ≥ 30 | ≥ 35 | |
| hardness (HBW 2,5/62,5) | | | | max. 150 | |

MECHANICAL PROPERTIES

| | thermal expanded | bar | bar | bar / forging |
|-------------------------|------------------|--|---|---------------|
| | | cold drawn D < 12,7 mm ASTM B164 | cold drawn 12,7mm ≤ D ≤ 88,9 mm ASTM B164 | |
| R _m (MPa) | ≥ 580 | ≥ 600 | 580 - 780 | |
| R _{p0,2} (MPa) | ≥ 345 | ≥ 415 | ≥ 400 | |
| R _{p1,0} (MPa) | | | | |
| A (%) | ≥ 10 | ≥ 20 | ≥ 18 | |
| AV (J) | | | ≥ 80 | |

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