

CHEMISCHE ZUSAMMENSETZUNG IN (%)

| | ASTM B446/564 | VdTÜV Werkstoffblatt 499 | DIN 17744 |
|----------|---------------|--------------------------|-------------|
| Ni, min | 58,0 | Rest | 58,0 |
| Fe, max. | 5,0 | 5,0 | 5,0 |
| Mn, max. | 0,50 | 0,50 | 0,50 |
| C, max. | 0,10 | 0,030 | 0,10 |
| Si, max. | 0,50 | 0,40 | 0,50 |
| S, max. | 0,015 | 0,010 | 0,015 |
| Cr | 20,0 - 23,0 | 21,0 - 23,0 | 20,0 - 23,0 |
| Al, max. | 0,40 | 0,40 | 0,40 |
| Ti, max. | 0,40 | 0,40 | 0,40 |
| Nb + Ta | 3,15 - 4,15 | 3,2 - 3,8 | 3,15 - 4,15 |
| Mo | 8,0 - 10,0 | 8,0 - 10,0 | 8,0 - 10,0 |
| P, max. | 0,015 | 0,010 | 0,020 |
| Co, max. | | 1,0 | 1,00 |
| Cu, max. | | | 0,50 |

MECHANISCHE EIGENSCHAFTEN
Grade 1
weichgeglüht

| | Stab ASTM B446 | Schmiedestück ASTM B564 | Schmiedestück | Stab DIN 17752 |
|--|-------------------|----------------------------|---------------|-------------------|
| | D ≤ 102 mm | | D ≤ 160 mm | D ≤ 100 mm |

| | | | |
|--------------------------|-------|------------|----------|
| R _m (MPa) | ≥ 827 | 760 - 1000 | ≥ 830 |
| R _{p 0,2} (MPa) | ≥ 414 | ≥ 380 | ≥ 415 |
| R _{p 1,0} (MPa) | | | ≥ 445 |
| A (%) | ≥ 30 | ≥ 35 | ≥ 30 |
| Av (J) | | ≥ 100 | |
| Härte (HBW 2,5/62,5) | | | max. 240 |

weichgeglüht

| | Stab 102 ≤ D ≤ 254 mm | Schmiedestück | Schmiedestück | Stab DIN 17752 |
|--|--------------------------|---------------|---------------|-------------------|
| | | | D > 160 mm | 100 < D ≤ 250 mm |

| | | | |
|--------------------------|-------|-----------|----------|
| R _m (MPa) | ≥ 758 | 730 - 920 | ≥ 760 |
| R _{p 0,2} (MPa) | ≥ 345 | ≥ 330 | ≥ 345 |
| R _{p 1,0} (MPa) | | | ≥ 375 |
| A (%) | ≥ 25 | ≥ 35 | ≥ 30 |
| Av (j) | | ≥ 44 | |
| Härte (HBW 2,5/62,5) | | | max. 240 |

Grade 2
lösungsgeglüht

| | Stab ASTM B446 | | Stab DIN 17752 |
|--|-------------------|--|-------------------|
| | | | D ≤ 250 mm |

| | | | |
|--------------------------|-------|--|-------|
| R _m (MPa) | ≥ 689 | | ≥ 690 |
| R _{p 0,2} (MPa) | ≥ 276 | | ≥ 275 |
| R _{p 1,0} (MPa) | | | ≥ 305 |
| A (%) | ≥ 30 | | ≥ 30 |

Die angegebenen Werte sind unverbindliche Richtwerte