

ACCIAI DA BONIFICA E ACCIAI INDURIBILI PER PRECIPITAZIONE

Application Segments

Aerospace

Granulometria disponibile

Prodotti lunghi

Descrizione del prodotto

BÖHLER V141 is a premium aircraft-quality, low-alloy Ni-Cr-Mo steel in the form of bars, forgings and forging stock requiring high tensile and toughness values, particular in large cross sections in the hardened and tempered condition. The molybdenum addition prevents the steel from being susceptible to temper brittleness.

These products have been used typically for parts requiring a through-hardening capability up to 6 inches (152,4 mm) in nominal thickness at time of heat treatment but usage is not limited to such applications.

Percorso di fusione

Airmelted

Applicazioni

- > Elem. strutt. (aerosp.)
- > Altri componenti per il settore aerospaziale

Dati tecnici

| Corrispondenze | | Standard | |
|----------------|--------------|----------|----|
| S97 | Market grade | S97 | |
| | | S140 | BS |
| | | S154 | |

Analisi chimica

| C | Si | Mn | P | S | Cr | Mo | Ni | Al |
|-------------|-------------|------------|------------|------------|-----------|-------------|-----------|---------------|
| 0,27 a 0,35 | 0,15 a 0,35 | 0,45 a 0,7 | max. 0,025 | max. 0,015 | 0,5 a 0,8 | 0,45 a 0,65 | 2,3 a 2,8 | 0,015 a 0,050 |

Related to BS S97

Condizioni di consegna

Ricotto

| | |
|--------------|--|
| Durezza (HB) | max. 277 S97A billets and bars for forging |
|--------------|--|

Hardened and Tempered

| | |
|-----------------------------------|---|
| Durezza (HB) | 293 a 341 S97 B and D bright bars for further processing, S97C forgings |
| Resistenza alla trazione (MPa) | 1.004 a 1.158 |
| Resistenza allo snervamento (MPa) | min. 850 |

Barre tonde

| Diametro mm | | | MOQ kg | Lunghezza m | | | Tolleranza |
|-----------------|---|--------|-----------|----------------|---|------|------------|
| ROTOLATO | | | | | | | |
| 5,01 | - | 12,49 | 750 | 3,00 | - | 4,00 | IT h/k 11 |
| 12,50 | - | 55,00 | 900 | 3,00 | - | 4,00 | IT h/k 11 |
| 55,01 | - | 69,00 | 1.200 | 3,00 | - | 4,00 | IT h/k 11 |
| 69,01 | - | 72,00 | 1.000 | 3,00 | - | 4,00 | IT h/k 11 |
| 72,01 | - | 82,00 | 1.150 | 3,00 | - | 4,00 | IT h/k 11 |
| 82,01 | - | 120,00 | 1.400 | 3,00 | - | 4,00 | IT h/k 11 |
| 120,01 | - | 145,00 | 1.400 | 3,00 | - | 5,00 | IT h/k 14 |

For additional specifications and other sizes please contact BÖHLER Edelstahl - Special Materials Aerospace & Land Based Turbine

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