

| | |
|-----------------------|-----------------|
| Quality | 10CrMo9-10 |
| According to Standard | EN 10273 : 2000 |
| Number | 1.7380 |



Comparable Standards

| EN | W.N. |
|------------|--------|
| 10CrMo9-10 | 1.7380 |

Chemical Analysis

| C % | Si % max | Mn % | P% max | S% max |
|-------------------|----------|-------------|--------|--------|
| 0.08 - 0.14 | 0.50 | 0.40 - 0.80 | 0.03 | 0.025 |
| Cr % | Cu max. | Mo % | Ni % | |
| 2.00 - 2.50 | 0.3 | 0.90 - 1.10 | - | |
| AI _{tot} | | | | |
| 1) | | | | |

Hot Work and Heat Treatment Temperatures

| Normalizing | Temperature Range For Quenching | |
|-------------|---------------------------------|-------------------------|
| | Austenitizing | Tempering ²⁾ |
| -- | 920 to 980 | 680 to 760 |

Mechanical Properties at Room Temperature

| Usual delivery conditon | Diameter or thickness mm | | Yield Strength R |
|-------------------------|--|-------|-----------------------------|
| | over | up to | N/mm ² min. |
| +N | | | |
| +NT | 16 | 6 | 310 |
| | 40 | 40 | 300 |
| +NT or +QA or +QL | 60 | 60 | 290 |
| | 100 | 100 | 270 |
| Tensile Strength | Elongation after fracture (L ₀ = 5,65S ₀) | | Minimum impact energy value |
| | A (longitudinal) % min. | | KV (longitudinal) |
| | | | J at temperatures in °C |
| 480 to 630 | 18 | | |
| 470 to 620 | | - | - |
| 460 to 610 | 17 | | 40 |

1) The Al content of the cast shall be determined and given in the inspection document.