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|-----------------------|---------------------|
| Quality | 42CrMo5-6 |
| According to Standard | EN 10269 : 2013 (E) |
| Number | 1.7233 |



| Comparable Standards | EN | W.N. | | |
|----------------------|--------------|-------------------|--------------|--------|
| | 42CrMo5-6 | 1.7233 | | |
| Chemical Analysis | C % | Si % max | Mn % | P% max |
| | 0.39 to 0.45 | ≤ 0.40 | 0.40 to 0.70 | 0.025 |
| | B | Cr % | Mo % | Ni % |
| | - | 1.20 to 1.50 | 0.50 to 0.70 | - |
| | S% max | Al _{tot} | | |
| | 0.035 | - | | |
| | V % | Others | | |
| | - | - | | |

Guidance for Heat Treatment

| Heat Treatment Symbol ^a | Normalizing, quenching or Solution annealing temperature °C | Type of cooling ^b | Tempering or precipitation treatment (and time) ^c °C |
|------------------------------------|---|------------------------------|---|
| + QT | 840 to 870 | o | 600 to 700 |

Mechanical Properties at Room Temperature

| Heat Treatment Condition ^{a,b} | Hardness | Diameter ^c | Proof Strength | Tensile strength |
|---|---------------------------|--------------------------|------------------------------|----------------------------|
| | HBW max | d mm | R _{p0.2} Mpa min. | R _m Mpa |
| + QT | - | d ≤ 100 100 < d ≤ 150 | 700 640 | 860 to 1060 850 to 1000 |
| + S | 255 | | | |
| + A | 241 | | | |
| | Elongation after fracture | Reduction in area | Impact energy(ISO-V) at 20°C | |
| | A % min. | Z % min. | KV ₂ J min. | |
| | 16 | 50 | 50 | |
| | 16 | 50 | 40 | |