

| | |
|-----------------------|---------------------|
| Quality | X14CrMoS17 |
| According to Standard | EN 10088-3:2005 (E) |
| Number | 1.4104 |



| Comparable Standards | EN | W.N. | AISI |
|----------------------|------------|--------|------|
| | X14CrMoS17 | 1.4104 | 430F |

| Chemical Analysis | C % | P ^o % max | | | | |
|-------------------|--------------|----------------------|--------|-------|---------------|--------------|
| | | Si % max | Mn % | S% | Cr % | |
| | 0,10 to 0,17 | 1,00 | ≤ 1,50 | 0,040 | 0, 15 to 0,35 | 15,5 to 17,5 |
| | Cu | Mo % | Nb | Ni % | Others | |
| | — | 0,20 to 0,60 | — | — | — | |

Hot Work and Heat Treatment Temperatures

| Heat Treatment Symbol | Hot Forming | | Annealing | | Quenching | | Tempering Temperature °C |
|-----------------------|----------------|-----------------|----------------|-----------------|----------------|-----------------|--------------------------|
| | Temperature °C | Type of cooling | Temperature °C | Type of cooling | Temperature °C | Type of cooling | |
| +A | 1100 to 800 | air | 750 to 850 | furn.,air | — | — | — |
| +QT 650 | 1100 to 800 | air | — | — | 950 to 1070 | oil, air | 550 to 650 |

Mechanical Properties at Room Temperature

| Heat Treatment Condition | Ø | Hardness | Rp0,2 ^d min. | Rm ^d | A ^d min. % | KV min. J |
|--------------------------|--------------|---------------------|-------------------------|-----------------|-----------------------|-----------|
| | mm. | HB ^c max | N/mm2 | N/mm2 | | |
| +A | — | 220 | — | max 730 | — | — |
| +QT650 | ≤ 60 | — | 500 | 650 to 850 | 12 | — |
| | 60 < t ≤ 160 | | | | 10 | — |