# STEEL GRADE FOR HIGH AND LOW TEMPERATURE APPLICATIONS



These steels are employed in the mechanical and petrochemical fields, principally in power stations. They are used for equipment that must function at a temperature of over 350° C. The plastic deformation due to the viscose creep is the result of the combined action of temperature-stress-time. Our controlled casting and rolling practices enable us to achieve a perfect ferrite structure hardening, higher micro-purity and controlled austenitic grain.

## Steel grade

| **Steel grade** | **Corresponding standard** | | | **Average chemical composition** | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Werkstoff | ORI Martin | C | Mn | Si | Cr | Mo | V | Ni |
| **Mo** | 15Mo3 | 15415 | C15D3 | 0,15 | 0,70 | 0,20 | - | 0,30 | - | - |
| **Cr Mo V** | 21CrMoV57 | 17709 | S21K5 | 0,20 | 0,70 | - | 1,30 | 0,70 | 0,30 | - |
| | 40CrMoV46 | 17711 | B40K4 | 0,40 | 0,70 | - | 1,00 | 0,60 | 0,30 | - |
| **Mn** | 20Mn6 | 11169 | C20M6 | 0,20 | 1,50 | 0,20 | - | - | - | - |
| **Ni** | 14Ni6 | 15622 | C14N6 | 0,14 | 0,60 | 0,20 | - | - | - | 1,50 |

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