Mooring Chain Steels
GRADES R4 - R5 - R6

Steels with high tensile strength and high toughness at low temperature

APPLICATION
Steels for Off-shore mooring chains with high level of tensile strength and high toughness at low temperature.

ADVANTAGES

| High tensile strength | R4 > 860 MPa | R5 > 1,000 MPa | R6 > 1,200 MPa |
| High toughness at low temperature | KV > 60 J at -20ºC |
| To guarantee a force of 9x10⁶ Kgf | R4 → Ø=120 mm | R5 → Ø=110 mm | R6 → Ø=100 mm |

APPLIED TECHNOLOGY

- Hardening and tempering steel grades.
- High alloyed steel grades with the aim of increasing the toughness at low temperature.
- Ingot/bloom manufacturing for a better inclusion control.
- Hydrogen diffusion annealing checked by slow strain rate tensile tests.