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 -20°C		
To guarantee a force of 9x10⁵ 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.