Material: UNI P 355 QH

Standard Specification for Structural and Constructional Steels

Group: *Ferrous Mild Steel Alloys*
Sub Group: *UNI P 355 QH Structural and Constructional Steels*
Application: *Intended for Valve, Pump, General Engineering, Automotive and Other Industries*
Grade Belongs to the Industry: *Steel*

Chemical Composition		
Carbon	C %	0.160 max.
Silicon	Si %	0.400 max.
Manganese	Mn %	1.500 max.
Phosphorus	P %	0.025 max.
Sulphur	S %	0.010 max.
Chromium	Cr %	0.300 max.
Nickel	Ni %	0.500 max.
Molybdenum	Mo %	0.250 max.
Vanadium	V %	0.060 max.
Titanium	Ti %	0.030 max.
Niobium	Nb %	0.050 max.
Zirconium	Zr %	0.050 max.
Boron	B %	0.005 max.
Nitrogen	N %	0.015 max.
Iron	Fe %	Balance

Heat Treatment
Annealing or Normalizing or Hardening + Tempering

Mechanical Properties	
Tensile Strength in Mpa	490 - 630
Yield Strength in Mpa	315 min.
Elongation in %	22 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	40 J @ RT

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
1.8830	EN	European Union	Steel
1.8866	DIN	Germany	Steel
C450L0	AS	Australia	Steel
P355Q	AFNOR NF	France	Steel
4020	AISI	USA	Forging, Bar, Wire, and Shape
C450	AS	Australia	Steel
A732 6N	ASTM	USA	Casting

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