

# Material: DIN StE 285

## Standard Specification for Seamless Circular Tubes of Fine Grain Steels for Special Requirements

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** DIN StE 285 Seamless Circular Tubes of Fine Grain Steels for Special Requirements

**Application:** Intended for Valve, Pump, General Engineering, Automotive and Other Industries

**Grade Belongs to the Industry:** Tube

Chemical Composition		
Carbon	C %	0.180 max.
Silicon	Si %	0.400 max.
Manganese	Mn %	0.600 - 1.400
Phosphorus	P %	0.035 max.
Sulphur	S %	0.030 max.
Chromium	Cr %	0.450 max.
Nickel	Ni %	0.300 max.
Molybdenum	Mo %	0.450 max.
Niobium	Nb %	0.030 max.
Aluminium	Al %	0.020 min.
Nitrogen	N %	0.020 max.
Copper	cu %	0.450 max.
Iron	Fe %	Balance
-	-	-
-	-	-

Heat Treatment	
Normalizing or Annealing or Hardening + Tempering	

Mechanical Properties	
Tensile Strength in Mpa	350 - 510
Yield Strength in Mpa	205 min.
Elongation in %	21 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	31 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
12 MCh	GOST	Russia	Steel
L 17 HM	PN	Poland	Casting
J12540	UNS	USA	Casting
TS 15 CD 2-05	AFNOR NF	France	Tube
XF 400	AS	Australia	Flat
XF 500	AS	Australia	Flat
A356 5	ASTM	USA	Casting

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