

CARBON STEEL BS EN 10293:2015

(G28Mn6 - 1.1165)

This 'middle carbon steel' is one of the most widely used Carbon Steels in the industry. It is used in machinery (mechanical, electrical...) automotive industries, railroad, armament, agricultural equipment, mining, etc.

Chemical Composition

Element		%
Carbon	С	0.25 - 0.32
Maganese	Mn	1.2 - 1.8
Silicon	Si	0.6 maximum
Phosphorus	Р	0.035 maximum
Sulphur	S	0.030 maximum

Typical Mechanical Properties		
Tensile Strength	600 - 750 MPa min.	
Hardness	201 - 225 HB	
Elongation	14 % min.	
Impact	35j min.	

Heat Treatment	
'QT1'	(Thickness <100mm)
Normailizing	880 - 950 °C +
Tempering	630 - 680 °C

Comparative Specifications

Material	Country/Standards
1.1165	European Union / EN
G28Mn6	European Union / EN
G28Mn6	United Kingdom / b.s.
SCMn 1	Japan / JIS

To discuss your requirements, call a member of NovaCast's team on +44 (0) 1225 707466, or email sales@novacast.co.uk

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