



Equivalents:

Chinese: Q345B

German: DIN 2391 Part 2

Colour Code:



ST52

Chemical Composition %:

	C	Si	Mn	S	P
Min					
Max	0.22	0.55	1.60	0.04	0.050

Mechanical Properties:

Yield Strength	Tensile Strength	Elongation	Charpy (V) Impact Test	Hardness Brinell	Tensile Tons/sq. inch
RP 0.2 MPA >330	RM (MPA) <700	A (%) >21	Joules (-20°C) >27	BHN 149 - 192	32 - 42

Note: For wall thickness <8mm the impact test value will not be supplied

Characteristics:

- Carbon steel
- Machinability good
- Weldability good
- Required hardness can be achieved by case hardening the outer surface by means of one of the following methods i.e carburising, carbonitriding, nitriding, nitrocarburising, tuftriding

Typical Applications:

Hydraulic cylinders/Honed cylinders
 Bushes (not subject to severe wear)
 Rings (industrial)

Case hardened rollers (light duty)
 Rolls for coal cutting equipment
 Spacers