

EQUIVALENTS:

British: ST52
 Chinese: Q345B
 German: DIN 2391 Part 2

COLOUR CODE:


ST52

CHEMICAL COMPOSITION %

	C	Si	Mn	P	S
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
RPO.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

APPLICATIONS:

Hydraulic cylinders/Honed cylinders
 Bushes (not subject to severe wear)
 Rings (industrial)
 Case hardened rollers (light duty)
 Rolls for coal cutting equipment
 Spacers

TOLERANCES

- Outer Diameter (OD): +/- 1%
- Wall Thickness: +/- 10%
- The above mentioned should be determined based on nominal dimensions