

EQUIVALENTS:

British: BS4360 grade 50D

Chinese: S355J2+N

German: DIN 17100 grade ST52-3

COLOUR CODE:


S355J2+N

CHEMICAL COMPOSITION % AS PER EN10025-2:2004:

	C	Si	Mn	Ni	P	S	Cr	Mo	Al
Min									
Max	0.22	0.55	1.60	0.03	0.035	0.035	0.30	0.08	0.02

CARBON EQUIVALENT VALUE FORMULA TO BE USED:

$$CE = \frac{C+Mn}{6} + \frac{Cr+Mo+V}{5} + \frac{Ni+Cv}{5}$$

MECHANICAL PROPERTIES:

Thickness mm	Tensile RMPa	Min Yield MPa	Elongation %	Min Impact energy -20°C
8- 100mm	450- 630	513 - 355	18 - 20%	27J
101-200mm	450- 600	285 - 295	18%	27J
201-400mm	450- 600	275	17%	27J

Note: The minimum impact energy is longitudinal energy

CHARACTERISTICS:

- Carbon steel
- High strength steel grade
- High performance steel grade
- Machinability good (premium quality)
- Impact tests at -20°C
- Low alloy high strength structural steel
- Inspection approved certificate: EN10204.3 1 B

APPLICATIONS:

All types of steel fabrications