

EQUIVALENTS:

American: ASTM grade A283D

British: BS4360 grade 4313 (EN10025-2)

German: DIN 17100 grade ST52-2

COLOUR CODE:


S275JR+AR

CHEMICAL COMPOSITION %

GRADE	Max C Content For t IN MM			Mn Max	Si Max	P Max	S Max	Cu Max	Ni Max
	t ≤ 16	>16 t ≤	t > 40						
S275JR+AR	0.21	0.21	0.22	0.70	-	0.035	0.035	0.550	0.012

CARBON EQUIVALENT VALUE FORMULA TO BE USED:

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

MECHANICAL PROPERTIES:

GRADE	Yield (Mpa) Min	Tensile (Mpa) Min	Charpy V-NOTCH Longitudinal	
	Strength at t = 16mm		Temp (°C)	Energy (J) t = 16mm
S275JR+AR	700/850		25	28

Note: Verification of the specified impact value is only carried out when agreed at the time of enquiry and order

CHARACTERISTICS:

- Carbon steel
- Weldable

TYPICAL APPLICATIONS:

Structural steel works: bridge components, components for offshore structures
Power plants

Mining and earth moving equipment Load-handling equipment
Wind tower components

TOLERANCES:

Material 6mm and thicker is supplied with dimensional tolerances in accordance with EN10029. If not specified tolerances will be according to "Class A".

- S - Symbol for structural steel
- JR - Symbol for 20° C temperature impact test
- J2 - Symbol -20° C temperature impact test

Material produced in the hot strip mill is supplied with dimensional tolerances in accordance with EN10051.