

PRODUCT INFORMATION

S275JR+AR

Equivalents:

American: ASTM grade A283D British: BS4360 grade 4313

German: DIN 17100 grade ST42-2

Colour Code:



S275JR+AR

Chemical Composition % AS PER 50025/EN10025:

GRADE	Max C Content For t IN MM			Mn	Si	Р	S	Cu	Ni
	t ≤ 16	> 16 t ≤	t > 40	Max	Max	Max	Max	Max	Max
S275JR+AR	0.21	0.21	0.22	1.50	-	0.035	0.035	0.550	0.012

Carbon equivalent value formula to be used:

$$CE = C+MN$$

Mechanical Properties:

GRADE	Yield (Mpa) Min	Tensile (Mpa) Min	Charpy V-NC	Charpy V-NOTCH Longitudinal		
GRADE	Strength a	t t = 16mm	Temp (° C)	Energy (J) t = 16mm		
S275JR+AR	275	410/560	20	27		

Note: Varification 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".

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

S - Symbol for structural steel

JR - Symbol for 20° C temperature impact test JO - Symbol 0° C temperature impact test

J2 - Symbol -20° C temperature impact test