

Supply EN10025 S235JRG2 steel plate

S235JRG2 steel is a specific one and has no different classes. It was regulated in EuroNorm EN 10025 superseded by EN 10025-2 (2006) and the new designation is just S235JR. Both editions deal with "structural" steels.

The designation given is the symbolic one, the numerical designation of material is 1.0038.

The symbolic designation means:

S- "Structural Grade"

235- minimum value of yield strength in MPa (roughly 35 ksi) for thicknesses up to 16 mm.

JR- Base steel (Charpy impact test not obligatory, optional only)

G2- Rimming steel not allowed.

More characteristics of this plain carbon steel available in long (Profiles, beams..) and flat products (sheet and plates) are:

Impact value (if specifically required)- 27 J at 20°C

Carbon content:0.17% max. (0.20% for thicknesses over 40 mm)

Mn content: 1.40% max

P and S content: 0.045% max.

N content: 0.009% max (Not applicable if Al minimum is 0.020%)

ASTM steel S235JRG2 steel has different uses (can be applied to pressure service for example) even if it's a carbon steel too. The different grades refer to different strength grades.

If you want to use EN steels according to EN 10025, there are some other designations for different strength grades (for example S275 or S355 which have a higher yield strength.)

Bebon steel — The most professional exporter on weathering resistant steel

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S235JRG2 steel plate Chemical analysis -% by mass*

Chemical elements	C≤ 16mm max	C>16mm max	Si max	Mn max	P max.	S max.
%by mass	0.17	0.17	--	1.40	0.045	0.045

S235JRG2 steel sheet Mechanical properties

thickness	Yield Strength ReH[N/mm2] transv.min.	Tensile Strength Rm[N/mm2]transv.	Fracture Elongation[%]transv. min.	Notch impactEnergy1) Ch Vcomplete samplelongitud. min [J]
t≤ 16mm t >16mm	235 225			Degree: 20 AV: 27J
t< 3mm t ≥ 3mm		360-510 340-470		
Up to 1.5mm			16	
1.51-2.00mm			17	
2.01-2.50mm			18	
2.51-2.99mm			19	
≥ 3mm			24	

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