

S235 Steel

LOW CARBON NON-ALLOYED STEEL

We are a division of the Smiths Metal Centres Limited Group

Revision: tsm/heat-treated/s235/15-03-23

Page: 1 of 1



S235 steel is a non-alloy structural steel grade defined by the European standard EN 10025.

It is commonly used in construction and engineering industries to make buildings, bridges, and other structures. **S235 steel** is a low-carbon manganese steel with good corrosion resistance. The material offers high impact resistance down to sub-zero temperatures. Making this class of steel ideal for structural applications.

Chemical Composition (weight, %)

	C	Mn	P	S	Cu	
Min.						
Max.	0.17	1.40	0.035	0.035	0.55	

* Properties as per EN 10025-2

Heat Treatments:

S235 steel has a minimum yield strength of 235 MPa, making it a strong and durable material for construction and engineering purposes. The material has a minimum yield strength of 235 MPa, making it a great option when sourcing a material possessing strength, durability, and cost-effectiveness qualities.

Machinability:

S235 steel is considered to have good machinability and can be easily machined to produce high-quality components and structures. The strength, low carbon content and chemical composition increase the material's machinability.

Corrosion Resistance:

The grade offers good resistance to atmospheric corrosion, making it suitable for outdoor structures. Resistance may be improved by using surface coatings.

Applications:

Engineering steel can be incredibly diverse, offering excellent welding properties and guaranteed strengths. **S235 steel** is used in construction intended for building steel structures with welded and other connections. Our product finds use in the automotive industry to make parts such as chassis, suspension components and structural parts.

Availability:

We stock **S235 steel** in round and square bars of various diameters. We supply the product in standard lengths or cut to your specific size requirements.