

Carbon Steel Sheet

Typical Applications

- Low stressed applications
- General aerospace use
- General engineering applications
- Machinery components
- Flanges, spacers, bushes

Product Description

An unalloyed heat treatable carbon steel available in sheet and strip. Suitable for low strength components. Requires protection from corrosion if it is to be exposed to the atmosphere. Easily welded. Annealed tensile strength (Rm) 430-540 N/mm². Usually supplied softened.

Related Specifications

- EN3A
- 1.1151

Key Features:

- Suitable for low strength components
- Easily welded
- Heat treatable
- Improved tensile strength once annealed
- Supplied softened

Corrosion Resistance

Protection required if exposed to the atmosphere

Weldability

Easily welded

Availability

Sheet, strip

Chemical Composition (weight %)

Weight (%)	C	Si	Mn	P	S	Ni	Cr	Mo		
Min	0.17	0.10	0.40							
Max	0.25	0.35	0.80	0.040	0.040	0.30	0.25	0.10		

Mechanical Properties (solution annealed)

Size	Tensile Strength Rm N/mm ²	Proof Stress Rp 0.2 N/mm ²	Elongation in 5.65 √Cross Sectional Area (%)	Hardness HB
<1.6mm	430 - 540	255	18	121 - 163
>1.6mm	430 - 540	255	20	121 - 163

Technical Assistance

Our knowledgeable staff backed up by our resident team of qualified metallurgists and engineers, will be pleased to assist further on any technical topic.

UK Service Centres:

Smiths Belfast **02895 908 897**
 Smiths Biggleswade **01767 604 704**
 Smiths Birmingham **0121 728 4940**
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Quality & Testing:



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