

Carbon Steel Sheet

Typical Applications

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

Product Description

An unalloyed heat treatable carbon steel available in sheet and strip. Suitable for low strength components requiring significant drawing operations during manufacture. Requires protection from corrosion if it is to be exposed to the atmosphere. Annealed tensile strength (Rm) 280-400 N/mm². Supplied in the softened condition.

Related Specifications

- EN2A

Key Features:

- Suitable for low strength components
- Easily welded
- Heat treatable
- Improved tensile strength once annealed
- Used in applications where significant drawing is required during the manufacturing process

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										
Max	0.1	0.2	0.5	0.04	0.04	0.2	0.15	0.05		

Mechanical Properties (softened)

Size	Tensile Strength N/mm ²	Yield Strength N/mm ²	Elongation (%)	Hardness HB
<1.6mm	280 - 400	-	26	121 max
1.6mm - 2.4mm	280 - 400	-	28	121 max
>2.4mm	280 - 400	-	30	121 max

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 Leeds	0113 307 5167
Smiths Biggleswade	01767 604 704	Smiths Manchester	0161 794 8650
Smiths Birmingham	0121 728 4940	Smiths Norwich	01603 789 878
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Smiths Horsham	01403 261 981	Main Office	0845 527 3331

Quality & Testing:



www.smithmetal.com info@smithmetal.com