

Hot Rolled Steel

For Springs

Product Data Sheet

Product Description

Hot rolled silico-manganese steel for engineering purposes including the manufacture of hot formed springs.

Normal mill edge flats (BS970 Pt.1), and special radius edge (R=T approx.) flats for springs (BS970 Pt.2).

Composition Properties

Silico-manganese spring steel grade 251A58 as specified in BS970 Part 2 1988 'Requirements for steels for the manufacture of hot formed springs'.

% C	0.55-0.60	% Si	1.80-2.10
% Mn	0.80-1.00	% P	0.035 max
% S	0.035 max	% Cr	0.15-0.30
% Mo	0.10 max		

The steel is manufactured to fine grain steelmaking practice (%Al .015-.045). Hardness 321 HB max.

The chemical composition is similar to BS970: EN45 and DIN 55Si7 (1.0904)

Size Range

Hot Mill 1 spring steel flats are available in most combinations from 18mm up to 80mm wide by 4mm up to 13mm thick. Special profiles can be rolled within similar geometric limits.

Tolerances

	BS970 Pt.1	BS970 Pt.2
Thickness (over 50mm wide)	+/- 0.4mm	+/- 0.13mm +/- 0.15mm

Width

10 to 35mm +/- 0.5mm, > 35 to 75mm +/- 0.8mm
up to 50mm +/- 0.4mm, > 50 to 75mm +/- 0.5mm

Length Tolerance

Standard + 300mm, Exacts + 50mm, Re-sheared + 6mm

Special tolerances and SPC analysis can be supplied by agreement.

Supply Condition

Bars are available in lengths up to 8.0 metres. Bar ends are cleanly sheared. Standard bundles are 2000 kg secured with tensioned bands. Smaller bundles available by agreement.

Ancillary Services

Re-shearing, cold straightening, pickling and oiling, special bundling and wrapping.



Bromford Iron & Steel Co Ltd

Hot Rolled Flats & Special Profiles

Pickling & Oiling

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