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S/S 6y 25102:1964

[S. 102, December, 1951]

NOTE.—The Institution desires to call attention to the fact that this standard is intended to include the technical provisions necessary for the supply of the material herein referred to, but does not purport to comprise all the necessary provisions of a contract

British Standards Institution

Incorporated by Royal Charter.

FORMED IN 1901 AS THE ENGINEERING STANDARDS COMMITTEE.

INCORPORATED IN 1918 AS THE BRITISH ENGINEERING STANDARDS ASSOCIATION.

BRITISH STANDARD SPECIFICATION FOR AIRCRAFT MATERIAL

CARBON-MOLYBDENUM STEEL

(Wires only for the manufacture of cold forged bolts of $\frac{1}{2}$ in. shank diameter and over)

1. Chemical composition.

*Carbon	not less than 0.30 and not more than 0.40 per cent.
Silicon	not more than 0.35 per cent.
Manganese	not less than 0.70 and not more than 1.00 per cent.
Molybdenum	not less than 0.20 and not more than 0.35 per cent.
Sulphur	not more than 0.050 per cent.
Phosphorus	not more than 0.050 per cent.

2. Process of manufacture.

Acid or basic open hearth, or electric.

3. Rough machining.

Section One, Clause 5.1, of British Standard 2 S.100.

4. Hardening test.

(Section Eleven, Clause 2.2, of British Standard 2 S.100). Diamond pyramid hardness number : not less than 400.

5. Condition.

The wire shall be delivered in one of the following conditions as specified on the order :—

Type 1—Annealed.

Type 2—Annealed and subsequently drawn.

Type 3—Drawn direct from rod.

*It is permissible to specify either a 0.30/0.35 or 0.35/0.40 per cent carbon range on the order.