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S. 521, March, 1956

(Replacing Ministry of Supply Aircraft Material Specification D.T.D. 171 and in part, D.T.D. 571)

BRITISH STANDARDS INSTITUTION
BRITISH STANDARDS HOUSE, 2 PARK STREET, LONDON, W.1

INCORPORATED BY ROYAL CHARTER
Telephone: MAYFAIR 9000
Telegrams: STANDARDS, AUDLEY, LONDON

BRITISH STANDARD SPECIFICATION
FOR AIRCRAFT MATERIAL

CHROMIUM-NICKEL STEEL SHEETS AND STRIPS
(CORROSION-RESISTING)
(13 TON 0.1 PER CENT PROOF STRESS)

NOTE 1.—Sheets and strips of this composition as cold-rolled or as cold-rolled and tempered are covered by British Standard S.520 Cold-rolled chromium-nickel steel sheets and strips (corrosion-resisting).

NOTE 2.—Filler rods complying with British Standard 1453, Grade A8, are suitable for welding materials of this composition. see amdt. 2.

1.1. The steel shall contain :

1. Chemical composition.

Element	Per cent	
	min.	max.
Carbon	—	0.16
Silicon	0.20	—
Manganese	—	1.0 2.0
Nickel	7.0	12.0
Chromium	16.0	20.0
Titanium or Niobium (Columbium)	not less than 5 times the carbon content. not less than 10 times the carbon content.	—
Sulphur	—	0.045
Phosphorous	—	0.045

The following additional elements may be present at the option of the manufacturer :—

tungsten, molybdenum, tantalum, copper, vanadium.

Stabilizing Elements: — see amdt. 2.

2. Process of manufacture

2.1. The material shall be manufactured by an electric process.

3. Surface dressing.

3.1. The material shall be surface dressed in accordance with the requirements of Section One, Clause 5.1, of British Standard S.500.

Price 2/- net.