

**BS 601 : Part 4 : 1973**

UDC 689.14.018.58-41:621.3.042

Specification for
**Steel sheet and strip
for magnetic circuits of
electrical apparatus**

**Part 4. Thin magnetic steel,
less than 0.25 mm thick**

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The following BSI references relate to the work on this standard:
Committee reference ISE/4/5 Draft for comment 71/44164DC

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British Case Iron Research Association
British Constructional Steelwork Association
*British Electrical and Allied Manufacturers' Association
British Ironfounders' Association
British Mechanical Engineering Confederation
*British Steel Industry
Council of Ironfoundry Associations
Council of Iron Producers
Department of Employment
Department of Trade and Industry (Marine Division)
Engineering Equipment Users' Association
Federation of Civil Engineering Contractors
Greater London Council
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Institute of Marine Engineers

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Institution of Production Engineers
Institution of Structural Engineers
Lloyd's Register of Shipping
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*National Physical Laboratory (Department of Trade and Industry)
Oil Companies Materials Association
Process Plant Association
Royal Institute of British Architects
Shipbuilders and Repairers National Association
Society of Motor Manufacturers and Traders Ltd.
Stainless Steel Development Association
Tin Research Institute

The organizations marked with an asterisk in the above list, together with the following, were directly represented on the committee entrusted with the preparation of this British Standard:

BEAMA Transmission and Distribution Association
Electricity Council, the Central Electricity Generating Board and the Area Boards in England and Wales
Power Generation Association
Radio and Electronic Component Manufacturers Federation
Rotating Electrical Machines Association

Small Electric Motor Manufacturing Association
Telecommunication Engineering and Manufacturing Association
The Wolfson Centre for the Technology of Soft Magnetic Materials



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Foreword

This part of this revised British Standard authorized by the Iron and Steel Industry Standards Committee applies to steel which is primarily for use in equipment which is operated in the frequency range 400 Hz to 20 kHz (e.g. for aircraft and telecommunications applications). The data is expressed in terms of SI units.

The new edition has been divided into five parts. The other parts are:

- Part 1 Non-oriented steel, 0.25 mm thick and above
- Part 2 Oriented steel, 0.25 mm thick and above
- Part 3 High permeability steel with specified mechanical properties
- Part 5 Methods of test.

It should be noted that methods of test are now covered in Part 5 of this standard and not, as in the previous edition, in the form of attached appendices.

The grade of the material is designated by two letters and a number. The first letter 'T' represents thin magnetic steel. The second letter 'O' or 'N' represents oriented or non-oriented material. The number is the nominal thickness in micrometres (e.g. Grade TO 100).

If typical values of the mandatory characteristics specified in this standard are required, reference should be made to the manufacturer.

NOTE, Attention is drawn to the certification facilities offered by BSI – see the inside back cover of this standard.