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+ 2 AMENDMENTS

Committee Room B

BRITISH STANDARD 24: PART 1: 1941

*Superseded by 1956 issue*

# AXLES

RAILWAY  
ROLLING STOCK  
MATERIAL

BRITISH STANDARDS INSTITUTION

December, 1941

C.F. (ME) 9022

BRITISH STANDARDS INSTITUTION  
BRITISH STANDARD SPECIFICATIONS FOR  
RAILWAY ROLLING STOCK MATERIAL  
LOCOMOTIVE, CARRIAGE AND  
WAGON AXLES

B.S. 24 : Part 1 : 1941

WAR EMERGENCY REVISION

Owing to the present comparative scarcity of raw materials sufficiently low in sulphur and phosphorus for the production of steel to comply with the limits laid down in B.S. Specification No. 24 : Part 1 : 1941, the following amendments are hereby made:

SPECIFICATION No. 1 : 1941. LOCOMOTIVE CRANK AXLES (WITH ANALYSIS)

SPECIFICATION No. 2 : 1941. LOCOMOTIVE STRAIGHT AXLES (WITH ANALYSIS)

*Clause 1. Quality of Material.* The maximum percentage of sulphur and of phosphorus to be 0.05 in place of 0.04.

SPECIFICATION No. 2a : 1941. LOCOMOTIVE STRAIGHT AXLES

*Clause 1. Quality of Material.* The maximum percentage of sulphur and of phosphorus in axles made by the basic open hearth process to be 0.06 in place of 0.05.

SPECIFICATION No. 3 : 1941. CARRIAGE AND WAGON AXLES (WITH ANALYSIS)

*Clause 1. Quality of Material.* To read:

'The axles shall be manufactured from the highest quality of steel made from the best selected material by the acid or basic open hearth process and shall not show on analysis more than 0.06 per cent of sulphur or of phosphorus.'

SPECIFICATION No. 3a : 1941. CARRIAGE AND WAGON AXLES

*Clause 1. Quality of Material.* The maximum percentage of sulphur and of phosphorus in axles made by the basic open hearth process to be 0.06 in place of 0.05.

[B.S. 24—Part 1—1941, p. 5]

CF (ME) 9756  
(Amplifying CF (ME) 9022)

Amendment No. 2. March, 1942

to

B.S. 24 : Part 1 : 1941

War Emergency Revision

SPECIFICATION No. 2, 1942

LOCOMOTIVE STRAIGHT AXLES (WITH ANALYSIS)

A further departure from the above specification is permitted as a War Time measure, allowing the use of basic open hearth steel where acid open hearth steel was previously specified.

The following amendment to the War Emergency Revision Slip CF (ME) 9022 in so far as it applies to Specification No. 2 is therefore made:

*Clause 1. Quality of Material.* The first paragraph of the clause to be amended to read as follows:

'The axles shall be manufactured from high quality steel made by the acid or basic open hearth or the electric process and shall show on analysis not more than 0.05 per cent of sulphur or of phosphorus.'

AMENDMENT TO SLIP CF (ME) 9022

*Specification No. 3. Revision of Clause 1. Quality of Material.*  
*Line 3.*

The words 'or the electric' to be inserted before the word 'process.'

[B.S. 24 : Part 1 : 1941, p. 5]

BRITISH STANDARD SPECIFICATIONS

Railway Rolling Stock Material

**LOCOMOTIVE, CARRIAGE  
AND WAGON AXLES**

B.S. 24 : PART 1 : 1941

Price 2/- net, post free, 2/3

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**CO-OPERATING ORGANISATIONS**

The Mechanical Industry Committee under whose supervision this British Standard was prepared consists of representatives from the following Government Departments, Professional Institutions and Scientific and Industrial Organisations :

- Admiralty.
- \*Crown Agents for the Colonies.
- Department of Scientific and Industrial Research.
- \*High Commissioner for India.
- Home Office.
- Ministry of Transport.
- Ministry of Works and Buildings.
- \*War Office.
- Agricultural and Road Machinery Manufacturers' Association.
- Association of Consulting Engineers (Incorporated).
- British Chemical Plant Manufacturers' Association.
- British Electrical and Allied Manufacturers' Association.
- British Engineers' Association.
- \*British Iron and Steel Federation.
- British Marine Oil-Engine Manufacturers' Association.
- Engineering Insurance Companies.
- Institute of Marine Engineers.
- Institute of Petroleum.
- Institution of Automobile Engineers.
- Institution of Civil Engineers.
- Institution of Gas Engineers.
- Institution of Heating and Ventilating Engineers.
- Institution of Mechanical Engineers.
- Institution of Production Engineers.
- \*Locomotive Manufacturers' Association.
- Machine-Tool Trades Association.
- Railway Companies of Great Britain.

The Government Departments and Scientific and Industrial Organisations 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 :

- Dominion of New Zealand.
- High Commissioner for the Union of South Africa.
- National Physical Laboratory.
- Institution of Locomotive Engineers.
- Iron and Steel Trades Employers' Association.
- Steel Castings Manufacturers' Association.
- Association of Drop Forgers and Stampers.
- British Non-Ferrous Metals Research Association.
- Railway Carriage and Wagon and Financiers' Parliamentary Association.