

JAPANESE INDUSTRIAL STANDARD

Cylinder Liners for Automotive Engines

JIS D 3103-1989

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by

Japanese Standards Association

In the event of any doubt arising, the original Standard in Japanese is to be final authority.

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1. Scope

This Japanese Industrial Standard specifies the cylinder liners used for 4-cycle automotive engines. However, this does not apply to cylinder liners used for light alloy cylinder block with internal chill.

Remark: In this Standard the units and numerical values shown in { } are in accordance with conventional units and, appended for informative reference.

2. Definitions

For the purposes of this Standards, following definitions apply:

- (1) wet cylinder liner The cylinder liner of style where the cooling liquid contact the jacket part.
- (2) <u>dry cylinder liner</u> The cylinder liner of style having no jacket part, where cooling liquid does not contact.
- (3) mid stop The style to fix the position of central axis direction by the flange set at upper part (upper flange) and the flange set at the middle part (lower flange) in wet cylinder liner.

Applicable Standards:

- JIS B 0401-System of Limits and Fits
- IIS B 0601-Definitions and Designation of Surface Roughness
- JIS G 0565-Methods for Magnetic Particle Testing of Ferromagnetic Materials and Classification of Magnetic Particle Indication
- JIS H 8615-Electroplated Coatings of Chromium for Engineering Purposes
- JIS Z 2201-Test Pieces for Tensile Test for Metallic Materials
- JIS Z 2241-Method of Tensile Test for Metallic Materials
- JIS Z 2244-Method of Vickers Hardness Test
- JIS Z 2245-Method of Rockwell and Rockwell Superficial Hardness Test