



ENGINEERING STANDARDS

Material Specification

LIMITED USE
HN1000

HN Specifications - General Requirements

Do Not Use on New Programs; No Replacement

1. GENERAL

1.1 This standard covers general requirements relating to the supply of material or components. The requirements contained in this standard do not in any way over-ride any requirements of QS 9000 or the Production Part Approval Process (PPAP).

1.2 Where an Engineering Drawing note conflicts with a HN Material Specification requirement, the Engineering Drawing notation shall take precedence.

2. SPECIFIC CLAUSES

CLAUSE 'A' - APPROVAL

Production quantities shall not be accepted from any source, nor revised material from an approved source, until such materials have received approval from GM Holden Materials Engineering.

Appropriate documentation, setting out the results of tests performed by the vendor, must be submitted to GM Holden Materials Engineering demonstrating compliance with this specification.

After a material or component has been listed as approved against this standard, no change may be made in source, composition, form, colour, processing or identification without prior written approval by the purchaser, and such listing does not waive the obligation of the vendor to meet all detailed requirements of this standard with any shipment.

CLAUSE 'B' - CERTIFICATION

Clause deleted July 1997.

CLAUSE 'C' - INSPECTION AND REJECTION

While samples may be taken from incoming shipments and checked according to this standard, the vendor must accept the responsibility of shipments meeting this standard without dependence upon the purchaser's inspection which may be done at his option.

CLAUSE 'D' - MARKING

Containers must carry the relevant HN specification number, a vendors batch number, the suppliers name, any other requirements as specified in the purchase order and any legal requirements.

CLAUSE 'E' - APPROVAL (LUBRICANTS AND FLUIDS)

See Clause 'A' (July 1997).

CLAUSE 'F' - CERTIFICATION (LUBRICANTS AND FLUIDS)

Deleted July 1997.

CLAUSE 'G' - APPROVAL (PRODUCTION TRY OUT REQUIRED)

Production quantities shall not be accepted from any source, nor reformulated materials from an approved source until such materials have received approval from GM Holden Materials Engineering and have been subjected to a Manufacturing tryout and determined suitable for use in production.

Appropriate documentation, setting out tests performed by the vendor, must be submitted to GM Holden Materials Engineering demonstrating compliance with this specification.

After a material or component has been listed as approved against this standard, no change may be made in source, composition, processing or identification without prior written approval by the purchaser, and such listing does not waive the obligation of the vendor to meet all detailed requirements of this standard with any shipment.

CLAUSE 'H' - Hazardous materials approval

Hazardous materials approval is required for this specification.

The supplier must provide a material safety data sheet (MSDS) to "Worksafe Australia National Code of Practice for the Preparation of Material Safety Data Sheets (doc. No. NOHSC; 2011/1994)" standard.

Prior to supply of this material to GM Holden, for any purpose including test work, a safety data sheet must be forwarded to the Occupational Hygienist, Medical Centre, GM Holden Limited for approval. This approval must be granted prior to the supply of this material for any purpose, including testing.

A MSDS must also be provided by the supplier where an approved product has been re-formulated, renamed or another source is sought.

CLAUSE 'I' - TYPICAL PAINT PROCESS FOR APPROVED SOURCES

For a particular source, a typical process for the paint application may be shown in the material specification. This is to be considered for planning information only and is not considered as part of the specification. The over-riding requirement is that the painted part conforms to the performance tests shown in the appropriate material specification.

CLAUSE 'J' - RESTRICTED AND REPORTABLE SUBSTANCES

(i) All parts and components must meet the requirements of GMW3059 "Restricted and Reportable Substances for Parts".

Important Notes:

(a) Substances listed as prohibited shall only be used with written permission from the GM Holden Materials Engineering section.

(b) For High Feature V6 (HF V6) engine parts and associated clutch components full reporting of materials composition is required through IMDS(International Material Data System).

(ii) Radioactive elements and compounds

Shall not be present in any material or compound without full disclosure to, and written permission from the approving GM Holden Materials Engineer.