



ENGINEERING STANDARDS

Material Specification

LIMITED USE
HN2374

Lubricant Tyre Mounting

Do Not Use on New Programs; No Replacement

1. SCOPE

This specification describes a surfactant that forms a temporary liquid lubricant solution that facilitates the assembly of tyres onto wheels. This material is to be used solely for tyre assembly lubrication that is carried out at the Holden VAP in Elizabeth. For tyre assembly lubrication performed external* to Holden VAP, refer to Section 7 - Approved Suppliers and Materials.

2. REFERENCES

ASTM D1882 HN 1000

3. REQUIREMENTS AND PERFORMANCE TESTS

All tests are to be conducted at ambient conditions unless otherwise specified. All tests are to be conducted on the lubricant solution at the supplier's recommended dilution, 50% dilution with water respectively and on the concentrate.

3.1 Solubility

The material must be water soluble.

3.2 Lubrication

The material must provide temporary lubrication of rubber components. This lubrication should become ineffective upon standing post application.

3.3 Stability

The lubricant solution or uncut material shall not separate / precipitate when stored in a clear glass container for 168 h in the following three environments:

3.3.1 In the refrigerator (nominally 4 °C),

3.3.2 At normal ambient conditions and

3.3.3 In an oven at 35 ± 2 °C.

3.4 Staining

The material must not permanently damage or mark vehicle or wheel paintwork when tested to the procedure outlined in part 7 of ATSM D1882. This test should be carried out on freshly painted, production intent, test panel and wheel.

3.5 Corrosion

The lubricant solution or uncut material shall not cause any etching, pitting, permanent corrosion, or other defect on the surface of the wheel.

3.5.1 Test Procedure:

Use clean 25 x 75 mm strips of aluminium and also representative sections of the wheel. Each test piece shall be immersed in a separate 100 ml test tube containing 25 ml of the respective lubricant solutions. The test tube should be lightly stoppered with a cork stopper, supported in a beaker, then placed in the oven at 40 ± 2 °C for 168 h. The test pieces shall be examined under magnification of 20x and shall evidence no more corrosion than a control sample using water.

3.6 Field Test

3.6.1 The lubricant solution shall not foam when applied to the tyre or wheel by spraying, rolling transfer or hand applicator.

3.6.2 The lubricant solution shall uniformly coat the tyre bead area at a minimum film thickness exhibiting no fish eyes, dry spots or craters.

3.6.3 The lubricant solution shall not cause any slippage or rotation of the inflated tyre on the wheel after inflation.

4. APPROVAL, INSPECTION AND REJECTION

Refer HN 1000, Clauses A, C and G (Line Trial)

5. HAZARDOUS MATERIALS

Refer HN 1000, Clause H

6. RESTRICTED CHEMICALS

Refer HN 1000, Clause J