



ENGINEERING MATERIAL SPECIFICATION

Material Name

Specification Number

**ANTILEAK PELLET, ENGINE COOLING SYSTEM,
25 mm DIAMETER**

WSS-M99B37-B6

1. SCOPE

The material defined by this specification is a cooling system anti-leak additive.

2. APPLICATION

This specification was released originally for material to provide sealing to engine cooling systems. It is not intended to be used as a production repair item prior to vehicle inspection.

3. REQUIREMENTS

3.1 STANDARD REQUIREMENTS FOR PRODUCTION MATERIALS

Material suppliers and part producers must conform to the Company's Standard Requirements For Production Materials (WSS-M99P1111-A).

3.2 COMPOSITION CERTIFICATION

The supplier shall certify the pellet composition.

3.3 COMPOSITION

The material shall consist of a finely milled mixture of vegetable matter.

3.3.1 Vegetable Matter, wt %

Pecan Nut Shell	25 - 35
Ginger Rhizomes	45 - 55
Microcrystalline Cellulose	15 - 25

3.3.2 The compound shall be free of silicates, metallic powders, corn meal, turmeric, bran, starch, sugars and any other material that will render a detrimental or harmful effect to the cooling system components.

Date	Action	Revisions
2003 01 27	Revised	Rev para 3.6 and 3.7 and updated A. Reaume
2002 08 30	Activated	A. Reaume

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3.4 SERVICE

The packaged engine cooling system anti-leak pellets must meet the requirements of this specification and must meet the requirements of Ford Customer Service Division.

3.5 SIEVE ANALYSIS, U. S. Standard Sieves
(ASTM E 11)

3.5.1 Dry Analysis, wt %

	<u>Sieve Opening Hole</u> micrometer	
Retained on #30 mesh	590	0%
Retained on #35	420	10% max
Retained on #80	177	65% min
Retained on #150	105	15% max
Pass thru #150	105	15% max

Test Method

- . Select at random seven pellets to be analyzed.
- . Place one pellet at a time in a mortar and break up with 5 impacts of the pestle. Revolve the pestle inside the mortar to continue breaking up the pelleted particles until they are a uniform size.
- . Place the granulated material in the sieve rack and sieve on Rotap machine for 10 min according to ASTM C 92.
- . Weigh the material remaining on each sieve to 0.1 g and calculate the percentage based on the total sample weight.

3.6 pH (1% Solution, stirred 1 minute), min 6.4

3.7 SIZE OF PELLET

Diameter	25.4 +/- 2.3 mm
Thickness	20.0 +/- 2.3 mm
Weight	10.0 g minimum