



WAX, WATER EMULSION, POLYETHYLENE

WSS-M9G21-A

1. SCOPE

The material defined by this specification is a solid lubricant, consisting of a clear polyethylene wax emulsion in water.

2. APPLICATION

This specification was released originally for material applied to tube nuts on brake lines to provide consistent torque tension control.

3. REQUIREMENTS

Material specification requirements are to be used for initial qualification of materials.

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 TOTAL SOLIDS (ASTM D 2834, 2 grams, 125 +/-2 °C for 50 min.)	24 - 26%
3.3 pH (ASTM E 70)	9.4 - 10.0
3.4 WEIGHT (Weight/Volume at 23 °C)	0.98 – 1.02 kg/L
3.5 FLORESCENT PIGMENT (UV light (black light))	Must be present

The wax emulsion must have an UV florescent pigment added to assist in detection of the film.

4. GENERAL INFORMATION

The information given below is provided for clarification and assistance in meeting the requirements of this specification.

4.1 COLOR	Yellow/Green, creamy buff.
------------------	-------------------------------

Date	Action	Revisions
2007 01 08	Activated	



Documents

A. Wedepohl



4.2 The polyethylene wax has a Mettler Dropping Point (ASTM D 3954) of 280 °F +/- 10 °F before emulsification.

4.3 CONCENTRATION

A solution of 20 - 25% wax emulsion with water was used to coat the tube nuts for the torque tension trials.

4.4 UV FLORESCENT DYE

The initial dye is yellow/green in color when viewed under a high intensity UV light. The liquid dye is added to the undiluted wax emulsion at a concentration of 0.85ml/liter (6 oz/55 gal).