



Waterborne, Low Bake Sprayable Damper

1 Scope

This specification details the requirements of waterborne, low bake sprayable damper. Low bake refers to the target bake temperature range of the primer surfacer applied at the assembly site. The purpose of the sprayable damper is to reduce vehicle noise vibrations from the engine, tires, transmission and stone impingement.

1.1 Material Description. The material must be a smooth and homogeneous mixture that contains no lumps, no excess air, unmixed particles or foreign materials. The material must adhere to all production electrocoat. Specific material requirements and appropriate test methods are listed in the requirements section of the sprayable damper specification, GMW6725.

1.2 Symbols. Not applicable.

1.3 Applicability. For application in the paint shop over electrocoated substrate for the purpose of damping metal vibration.

1.4 Remarks. Not applicable.

2 References

Note: Only the latest approved standards are applicable unless otherwise specified.

2.1 External Standards/Specifications.

ASTM D1475

2.2 GM Standards/Specifications.

GMW3059

GMW6725

GMW14270

2.3 Additional References.

Production Part Approval Process (PPAP) Documentation Requirements

3 Requirements

3.1 Requirements on Test Specimens. Not applicable.

3.2 Performance Requirements. All performance requirements for this material are detailed in GMW6725.

3.3 All materials supplied to this standard must comply with GMW3059, Restricted and Reportable Substances, including the requirement to submit a full material composition disclosure to GM via the International Material Data System (IMDS) or via a completed GMW3059 report form.

3.4 Specific Gravity (ASTM D1475). Typical is 1.2 sp.g to 1.9 sp.g.

3.5 Production Part Approval Process (PPAP) Requirements. In addition to the requirements, all new material must comply with and meet all PPAP documentation requirements including, but not limited to, Product and Process Specific Design Matrix, Design Failure Mode and Effects Analysis (DFMEA), Process Failure Mode and Effects Analysis (PFMEA), Key Product Characteristic (KPC), Key Control Characteristic (KCC), Process Flow and Control Plan, Formulation Footprint, Process Capability Study and Measurement Systems Analysis.

3.6 The supplier must develop detailed, specific bake charts. These bake charts must be submitted to the appropriate GM Paint Engineer for approval and signature.

4 Manufacturing Process

Not applicable.

5 Rules and Regulations

5.1 Legal Regulations. All materials must satisfy applicable laws, rules, regulations and recommendations valid in the country of usage.

5.2 Language. In the event of conflict between the English and domestic language, the English language shall take precedence.

5.3 Inspection and Rejection. Samples of components or materials released to a GM material specification shall be tested for conformity with the requirements of this material specification and approved by the responsible Engineering department prior to commencement of delivery of bulk supplies.

A new approval must be received for any changes, e.g., properties, manufacturing process, location of manufacture, etc. If not otherwise agreed, all testing and documentation normally required for initial release must be completed.

It is the responsibility of the supplier to inform the customer in a timely manner, without solicitation, and to include documentation of all modifications of materials and/or processes and to apply for a new release.

5.4 Material Safety Data Sheets/Safety Data Sheets (MSDS/SDS). For new product submissions, or when a change in chemical composition of an existing product has occurred, a complete copy of the Material Safety Data Sheet/Safety Data Sheet must be submitted in compliance with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS) requirements or other country-specific MSDS/SDS requirements.

6 Approved Sources

Materials supplied to this specification must be approved by General Motors.

The appropriate GM Materials Engineering Department (Product Engineering or Manufacturing Engineering) must confirm materials as meeting the requirements of this specification. Only materials/sources listed in the GM Materials Approved Source List under this standard number have been qualified by Engineering as meeting the requirements of this standard.

Engineering qualifications of an approved source are required for this standard. Only sources listed in the GM Materials File (i.e., GM SupplyPower) under this standard number have been qualified by engineering as meeting the requirements of this standard. To access this list, reference GMW14270 for latest location.

7 Notes

7.1 Glossary. Not applicable.

7.2 Acronyms, Abbreviations, and Symbols.

DFMEA	Design Failure Mode Effects Analysis
GHS	Globally Harmonized System of Classification and Labeling of Chemicals
IMDS	International Material Data System
KCC	Key Control Characteristics
KPC	Key Product Characteristics
MSDS	Material Safety Data Sheet
PFMEA	Process Failure Mode Effects Analysis
PPAP	Production Part Approval Process
SDS	Safety Data Sheet

8 Coding System

This standard shall be referenced in other documents, drawings, etc., as follows:

Material per 9984558