

New Finish Development Document

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1. SCOPE:

This standard lists variables that shall be investigated and reported as an initial investigation into new or revised surface finishes intended for use on fasteners. This standard provides instruction for producing a final report that will be used to determine if further investigation of a surface finish is justified. Further investigation may include tests and evaluations specific to an individual OEM prior to introduction/approval of the surface finish. The final report shall include the results, observations, and conclusions for all of the variables. The final report may be made up of several individual reports covering each variable. In all cases the laboratory performing the test, the test date and the report approver shall be included in the final report.

2. REFERENCES:

ASTM B571
ASTM D1735
ASTM D523
SAE J2334
SAE/USCAR5
SAE/USCAR7
SAE/USCAR10/11
SAE/USCAR26
ISO 4599

3. REQUIREMENTS:

All of the following requirements shall be recorded in a final report.

3.1 Rationale:

Based upon current industry supply and usage, the rationale, (business case), for the introduction of a new finish shall be specified. It is not intended to limit the scope of this rationale, it can be based on new materials, new technology, improved quality, improved availability, lower costs improved environmental stewardship etc. The approximate cost of the surface finish shall be recorded. It is understood that finishing costs will vary based upon many factors such as geographic location, transportation quantities etc. It is not intended for this cost to be related to any specific type or size of fastener, or quantity. The cost or cost ratio provided is not intended to be used for purchasing prototype or production quantities, it is solely intended to determine the need to further investigate potential use of the surface finish. The recorded cost may be a comparison of surface finishes currently used in the fastener industry. The approximate cost may be recorded as a percentage or ratio of current surface finishes.