



SURFACE VEHICLE STANDARD

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Ultraviolet Leak Detection: Procedure for Use of Refrigerant Leak Detection Dyes for Service of Mobile Air-Conditioning Systems

RATIONALE

The technical report covers technology, products, or processes which are mature and not likely to change in the foreseeable future.

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Foreword—The purpose of this document is to establish safety precautions and a guideline procedure for the application of fluorescent dyes and ultraviolet leak detection within mobile air-conditioning systems.

1. Scope—This SAE Standard applies to the application of ultraviolet leak detection to service mobile air-conditioning systems.

2. References

2.1 Applicable Documents—The following publications form a part of this specification to the extent specified herein. Unless otherwise indicated, the latest issue of SAE publications shall apply.

2.1.1 SAE PUBLICATIONS—Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001.

SAE J1628—Technician Procedure for Using Electronic Refrigerant Leak Detectors for Service of Mobile Air-Conditioning Systems

SAE J2297—Ultraviolet Leak Detection: Stability and Compatibility Criteria of Fluorescent Refrigerant Leak Detection Dyes for Mobile R-134a Air-Conditioning Systems

SAE J2299—Ultraviolet Leak Detection: Performance Requirements for Aftermarket Fluorescent Refrigerant Leak Detection Dye Injection Equipment for Service of Mobile Air-Conditioning Systems

3. Statements, Cautions, and Warnings

3.1 A supplier of fluorescent leak detection dyes meeting the specifications in SAE J2297 shall provide a set of instructions which must include the following cautions and warnings verbatim.

3.1.1 **CAUTION**—Since the use of an ultraviolet leak detection dye requires the addition of a chemical substance into the A/C system which may or may not be compatible with the system, such dyes should not be used unless they are either expressly endorsed by the A/C system and/or vehicle manufacturer or meet the requirements of SAE J2297.

3.1.2 **WARNING**—Ultraviolet light is hazardous if eyes and skin are exposed over time. Ultraviolet light exposure should be minimized by wearing UV-blocking eyewear and always directing the light source away from one's body and protecting the bare skin.