

**Refrigerant Purity and Container Requirements for Carbon Dioxide (CO₂ R-744)
Used in Mobile Air-Conditioning Systems****1. Scope**

This SAE Standard applies to Carbon Dioxide R-744 refrigerant used to service motor vehicle passenger air-conditioning (A/C) systems designed to use CO₂ (R-744).

Hermetically sealed, refrigerated cargo systems are not covered by this document.

1.1 Rationale

The purpose of this SAE Standard is to establish the minimum level of purity required and container specifications for Carbon dioxide (CO₂) refrigerant use in, mobile air-conditioning (A/C) systems.

2. References

There are no referenced publications specified herein.

3. Purity Specification

The refrigerant referred to in this document shall fulfill the following levels:

3.1 Purity

99.5%

3.2 Moisture

Maximum Impurity (Mole%) 120 ppm (Dew Point colder than -40 °C)

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