

ICS 43.040.60; 83.140.40
CCS G 42



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 20025.3-2025

**Rubber and plastics hoses and hose assemblies for automotive
air conditioning - Specification - Part 3: Refrigerant 1234yf
(English Translation)**

Issued on: August 29, 2025

Implemented on: March 1, 2026

Issued by: State Administration for Market Regulation

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References

Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents".

Drafting.

This document is Part 3 of GB/T 20025. GB/T 20025 has the following parts published.

---GB/T 20025.2 Rubber and plastic hoses and hose assemblies for automotive air conditioning systems, resistant to refrigerant 134a;

---GB/T 20025.3 Specification for rubber and plastic hoses and hose assemblies for automotive air conditioning - Part 3: Refrigerants 1234yf.

This document is equivalent to ISO 8066-3:2020 "Rubber and plastic hoses and hose assemblies for automotive air conditioning - Part 3.

Refrigerant 1234yf.

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

This document was proposed by the China Petroleum and Chemical Industry Federation.

This document is under the jurisdiction of the National Technical Committee on Standardization of Rubber and Rubber Products (SAC/TC35).

Introduction

Automotive air conditioning rubber and plastic hoses and hose assemblies are classified according to the refrigerant they transport. Commonly used refrigerants include...

134a and 1234yf, etc. GB/T 20025 "Specification for Rubber and Plastic Hoses and Hose

Assemblies for Automotive Air Conditioning" is based on ISO 8066.

The draft standard GB/T 20025, "Specification for Rubber and Plastic Hoses and Hoses for Automotive Air Conditioning", is proposed to consist of three parts.

---Part 2: Refrigerant 134a Resistant. The purpose is to meet the requirements for rubber and plastic hoses and flexible conduits used in automotive air conditioning systems for conveying refrigerant 134a.

The usage requirements of pipe assembly components.

---Part 3: Refrigerant 1234yf. The purpose is to meet the requirements of rubber and plastic hoses for automotive air conditioning systems that transport refrigerant 1234yf.

Usage requirements for hose assemblies.

---Part 4: Low Vibration Transmission Type for Refrigerant 1234yf. The aim is to meet the requirements for low vibration transmission when transporting refrigerant 1234yf.

The demand for rubber and plastic hoses and hose assemblies for automotive air conditioning systems.

Rubber and plastic hoses for automotive air conditioning and hose assembly specifications

Part 3: Refrigerant 1234yf Warning. This document should be used by personnel with practical experience in formal laboratory work. This document does not address all potential safety issues.

Users are responsible for taking appropriate safety and health measures and ensuring compliance with relevant national regulations.

1 Scope

This document specifies the rubber or thermoplastic hoses and flexible conduits used in automotive air conditioning systems to circulate the liquid and gas R1234yf (tetrafluoropropylene).

Requirements for hose assemblies. The design of hoses and hose assemblies should limit refrigerant loss and system contamination. Operating temperature range.

-40°C~ 125°C.

Because the connection between the hose and the fitting is critical in the application, it is specified that the hose used in actual operation should be used in the test.

Requirements for the connector.