SURFACE VEHICLE RECOMMENDED PRACTICE

J2332™ MAR2026

Issued 1997-04
Revised 2026-03

Superseding J2332 JUL2013

Marking of Rubber Parts

RATIONALE

Document previously referenced supplier trademark names. Other annual publications can be used as a reference for up-to-date trademark names.

1. SCOPE

This SAE Recommended Practice provides a system for marking thermoset rubber parts to designate the general type of material from which the part was fabricated.

1.1 Purpose

The purpose of this document is to provide information to facilitate the:

a. Selection of materials and procedures for rubber parts

b. Collection and handling of parts for subsequent recycling

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 ISO Publications

Copies of these documents are available online at https://webstore.ansi.org/.

ISO 1043-2 Plastics - Symbols - Part 2: Fillers and reinforcing materials

ISO 1629 Rubber and Latices – Nomenclature

ISO 11469 Plastics - Generic identification and marking of plastic products

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2.1.2 VDA Publications

Available from DIN Deutsches Institut für Normung e.V., Burggrafenstrasse 6, 10787 Berlin, Germany, www.din.de.

VDA 260 German Motor Vehicles - Marking of Parts of Polymeric Materials

2.2 Related Publications

The following publications are provided for information purposes only and are not a required part of this SAE Technical Report.

2.2.1 ASTM Publications

Available from ASTM International, 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428-2959, Tel: 610-832-9585, www.astm.org.

ASTM D1418 Standard Practice for Rubber and Rubber Latices - Nomenclature

2.2.2 ISO Publications

Copies of these documents are available online at https://webstore.ansi.org/.

ISO 1043-1 Plastics - Symbols - Part 1: Basic polymers and their special characteristics

2.2.3 IISRP Publications

Available from International Institute of Synthetic Rubber Producers, 16360 Park Ten Place, Suite 110, Houston, TX 77084, Tel: 713-783-7514, www.iisrp.com/.

The Synthetic Rubber Manual

2.2.4 Rubber World Publications

Rubber World Blue Book

Online: www.rubberworld.com/bluebook

Hard Copy or Disc: http://www.rubberworld.com/RWBluebook.asp

3. DESCRIPTION

3.1 The system is based on standard symbols for terms relating to rubber (refer to ISO 1629). Most commonly used symbols, including some not covered by ISO, are shown in Table 1. Symbols for commonly used automotive fillers/reinforcements derived from ISO 1043-2 are shown in Table C1.

3.2 If additional symbols are required to cover new materials, the form in Appendix A shall be completed and submitted to SAE.

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Table 1 - Symbols for marking rubber parts

Elastomeric "Family" Name Chemical Composition of Polymer Chain		Standard Symbol	(Previous)[1][2]
Class M			
Copolymers of ethyl or other acrylate and a small amount of monomer, which facilitates vulcanization		ACM	
Copolymers of ethyl and other acrylates and ethylene		AEM	EEA
Copolymers of ethyl or other acrylate and acrylonitrile		ANM	
Chloro-polyethylene		CM	
Deleted line item Polychloro-trifluoro-ethylene Reason: Formally KEL-F rubber (e.g., Kel-F 3700). Thermoset rubber no longer produced. Only thermoplastic versions are commercial. Chloro-sulfonyl-polyethylene		CSM	
Terpolymer of ethylene, propylene, and a diene with the residual unsaturated portion of the diene in the side chain		EPDM	
Copolymers of ethylene and propylene		EPM	
Copolymers of ethylene and vinyl acetate		EVM	EAM
Copolymer of tetrafluoroethylene and propylene		FEPM	
Perfluoro rubbers of the polymethylene type having all substituent groups on the polymer chain either fluoro, perfluoroalkyl, or perfluoroalkoxy groups		FFKM	
Fluoro rubber of the polymethylene type having substituent fluoro and perfluoroalkyl or perfluoroalkoxy groups on the polymer chain		FKM	
Styrene-ethylene/butylene		SEBM	
Styrene-ethylene/propylene		SEPM	
Class O			
Polychloromethyl oxirane (epichlorohydrin polymer)		CO	
Ethylene oxide (oxirane) and chloromethyl oxirane (epichlorohydrin copolymer)		ECO	
Epichlorohydrin-ethylene oxide-allylglycidylether terpolymer		GECO	
Polypropylene oxide and allyl glycidyl ether		GPO	
Class Q			
Silicone rubber having fluorine, vinyl, and methyl substitute groups on the polymer chain		FVMQ	
Silicone rubbers having both methyl and phenyl and vinyl substituent groups on the polymer chain		PMQ	
Silicone rubbers having both methyl and phenyl substituent groups on the polymer chain		PVMQ	
Silicone rubbers having only methyl substituent groups on the polymer chain		MQ	
Silicone rubber having both methyl and vinyl substitute groups on the polymer chain		VMQ	

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