

TECHNICAL SPECIFICATION

No. TS147™

**SILICONE ELASTOMER, GLASSFIBRE
FABRIC REINFORCED CUSHION
(FOR USE IN LOOP STYLE CLAMP ASSEMBLIES)**



An SAE International Affiliate

RATIONALE

Eighth issue of this Technical Specification.
Table 2A amended to clarify tests required and the sample condition prior to each test.
For full details of changes, refer to supplementary SAE ITC Amendment Record document TS147-AR.

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**SAE INDUSTRY TECHNOLOGIES CONSORTIA
AEROSPACE STANDARDS AND PART QUALIFICATION PROGRAM**

FOREWORD

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SAE ITC Technical Specification TS147

CONTENTS

Title Page

Foreword

Contents

SECTIONS

1. SCOPE
2. NORMATIVE REFERENCES
3. REQUIREMENTS
4. QUALIFICATION AND INSPECTION REQUIREMENTS
5. INSPECTION FACILITIES
6. QUALIFICATION TEST REQUIREMENTS
7. BATCH ACCEPTANCE
8. FLUID TESTS

Prepared by the Technical Standards Committee (Aerospace)
SAE Industry Technologies Consortia (ITC)
Registered No. 3916053 (USA)

1. SCOPE

This specification covers the requirements for a silicone elastomer, glassfibre fabric reinforced cushion, for use in loop style clamp assemblies, suitable for operation over the temperature range of -65°C to +300°C.

2. NORMATIVE REFERENCES

The following documents, in whole or in part, are normatively referenced in this specification. For dated / revision listed references, only the issue stated applies. For undated / revision listed references, the latest issue of the referenced document (including any amendments) applies :-

a) SAE Industry Technologies Consortia (ITC)

TS200	Qualified Manufacturers for SAE ITC Aerospace Industry Standard Parts
TS201	Method Change Approval for Qualified Parts listed in TS200
TS202	Qualification Test Requirements & Procedures for Aerospace Industry Standard Parts

b) British Standards Institution (BSI)

BS 1595-1	Propan-2-ol (Isopropyl Alcohol) for Industrial use
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c) UK Defence Standardisation (DSTAN)

DEF STAN 91-48	Hydraulic Fluid, Petroleum: Superclean (H-515 / OM-15)
DEF STAN 91-87	Turbine Fuel, Aviation Kerosene Type, Containing Fuel System Icing Inhibitor (F-34 / AVTUR / FS11)
DEF STAN 91-100	Lubricating Oil, Gas Turbine Engine, Synthetic Grade 5cSt (O-160 / OX-26)

d) Development Test Command (DTC)

MIL-STD-810G+C1	Environmental Engineering Considerations and Laboratory Tests
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e) ASTM International

ASTM D297	Standard Test Methods for Rubber Products – Chemical Analysis
ASTM D395	Standard Test Methods for Rubber Property – Compression Set
ASTM D412	Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers – Tension
ASTM D471	Standard Test Method for Rubber Property – Effect of Liquids
ASTM D573	Standard Test Method for Rubber – Deterioration in an Air Oven
ASTM D624	Standard Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers
ASTM D2137	Standard Test Methods for Rubber Property – Brittleness Point of Flexible Polymers and Coated Fabrics
ASTM D2240	Standard Test Method for Rubber Property – Durometer Hardness