

AEROSPACE STANDARD	AS1339™	REV. J	
	Issued1976-03Reaffirmed2007-07Revised2018-11Superseding AS1339H		
Hose Assembly, Polytetrafluoroethylene, Metallic Reinforced, 3000 psi, 400 °F, Lightweight, Hydraulic and Pneumatic			

RATIONALE

Provide fitting OD max dimensions for fitting captured abrasion sleeve assemblies; add parts standards.

1. SCOPE

This SAE Aerospace Standard (AS) defines the requirements for a lightweight polytetrafluoroethylene (PTFE) lined, metallic reinforced, hose assembly suitable for use in high temperature, 400 °F, high pressure, 3000 psi, aircraft hydraulic systems, also for use in pneumatic systems which allow some gaseous diffusion through the PTFE wall.

2. APPLICABLE DOCUMENTS

The following publications form a part of this document to the extent specified herein. The latest issue of SAE publications shall apply. The applicable issue of other publications shall be the issue in effect on the date of the purchase order. In the event of conflict between the text of this document and references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

2.1 SAE Publications

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or +1 724-776-4970 (outside USA), <u>www.sae.org</u>.

AMS2700	Passivation of Corrosion Resistant Steels
AMS5557	Steel, Corrosion and Heat-Resistant, Seamless or Welded Hydraulic Tubing 18.5Cr - 10.5Ni - 0.40Ti (SAE 30321) Solution Heat Treated
AMS5561	Steel, Corrosion and Heat-Resistant, Welded and Drawn or Seamless and Drawn Tubing 9.0Mn - 20Cr - 6.5Ni - 0.28N High-Pressure Hydraulic
AMS5565	Steel, Corrosion Resistant, Welded Tubing 19Cr - 9.5Ni (304) Solution Heat Treated
AMS5566	Steel, Corrosion Resistant, Seamless or Welded Hydraulic Tubing 19Cr - 10Ni (304) High Pressure, Cold Drawn
AMS5567	Steel, Corrosion Resistant, Seamless or Welded Hydraulic Tubing 19Cr - 10Ni (304) Solution Heat Treated

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<u>SAE INTERNA</u>	TIONAL	AS1339™J	Page 2 of 24
AMS5570	Steel, Corrosion a	and Heat-Resistant, Seamless Tubing 18Cr - 11Ni - 0.40Ti (321)	Solution Heat Treated
AMS5573	Steel, Corrosion a Treated	and Heat-Resistant, Seamless Tubing 17Cr - 12Ni - 2.5Mo (SAE	30316) Solution Heat
AMS5575	Steel, Corrosion a Treated	and Heat-Resistant, Welded Tubing 18Cr - 10.5Ni - 0.70Cb (Nb) (347) Solution Heat
AMS5581	Nickel Alloy, Corr (Nb) Annealed	osion and Heat-Resistant, Seamless or Welded Tubing 62Ni - 2 ⁻	1.5Cr - 9.0Mo - 3.7Cb
AMS5639	Steel, Corrosion-l Heat Treated	Resistant, Bars, Wire, Forgings, Mechanical Tubing, and Rings	19Cr - 10Ni Solution
AMS5643		Resistant, Bars, Wire, Forgings, Mechanical Tubing, and Rings tion Heat Treated, Precipitation Hardenable	16Cr - 4.0Ni - 0.30Cb
AMS5644	Steel, Bars and F	orgings, Corrosion Resistant, 17Cr - 7Ni - 1Al	
AMS5645	Steel, Corrosion (321) Solution He	and Heat Resistant, Bars, Wire, Forgings, Tubing, and Rings at Treated	18Cr - 10Ni - 0.40Ti
AMS5646	Steel, Corrosion a (347) Solution He	and Heat-Resistant, Bars, Wire, Forgings, Tubing, and Rings 180 at Treated	Cr - 11Ni - 0.60Cb(Nb)
AMS5647	Steel, Corrosion-I Heat Treated	Resistant, Bars, Wire, Forgings, Mechanical Tubing, and Rings	19Cr - 9.5Ni Solution
AMS5648	Steel, Corrosion (316) Solution He	and Heat-Resistant, Bars, Wire, Forgings, Tubing, and Rings, at Treated	17Cr - 12Ni - 2.5Mo
AMS5653		and Heat-Resistant, Bars, Wire, Forgings, Tubing, and Rings 16L) Solution Heat Treated	17Cr - 12Ni - 2.5Mo
AMS5659	Steel, Corrosion- (Nb) -3.5Cu	Resistant, Bars, Wire, Forgings, Rings, and Extrusions 150	Cr - 4.5Ni - 0.30Cb
AMS5666	Nickel Alloy, Corro - 3.65Cb (Nb) Ani	osion and Heat-Resistant, Bars, Forgings, Extrusions, and Rings nealed	62Ni - 21.5Cr -9.0Mo
AMS5688	Steel, Corrosion-I	Resistant, Wire 18Cr - 9.0Ni (SAE 30302) Spring Temper	
AMS5689	Steel, Corrosion a	and Heat Resistant, Wire 18Cr - 10.5Ni - 0.40Ti (321) Solution F	leat Treated
AMS5690	Steel, Corrosion a	and Heat Resistant, Wire 17Cr - 12Ni - 2.5Mo (316) Solution He	at Treated
AMS5697	Steel, Corrosion-I	Resistant, Wire 19Cr - 9.5Ni (304) Solution Heat Treated	
AMS5743		and Heat-Resistant, Bars and Forgings 15.5Cr - 4.5Ni - 2.9Mo - o Cooled, Equalized, and Over-Tempered	0.10N Solution Heat
AMS-QQ-S-763	Steel, Corrosion F	Resistant, Bars, Wire, Shapes, and Forgings	
AIR4092	Investigation of P	TFE "Melt" Phenomenon for High Pressure Hoses	
ARP908	Ø Torque Require	ements, Installation and Qualification Test, Hose and Tube Fittir	ng
ARP1835	Preparation for De	elivery, General Requirements for Hose Assemblies	
AS150	Hose Assembly,	Type Classifications of, Basic Performance and Fire Resistance	

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AS611	Hose Assembly and Tubing, Polytetrafluoroethylene, Cleaning	Methods for	
AS1055	Fire Testing of Flexible Hose, Tube Assemblies, Coils, Fittings,	and Similar System Components	
AS1072	Sleeve, Hose Assembly, Fire Protection		
AS2078	Test Methods, Hose Assemblies, Polytetrafluoroethylene (PTF	E)	
AS4375	Fitting End, Flareless, Design Standard		
AS4395	Fitting End, Flared, Tube Connection, Design Standard		
AS7003	Nadcap Program Requirements		
AS7112	National Aerospace and Defense Contractors Accreditation Pr Components	ogram Requirements for Fluid System	
AS8879	Screw Threads - UNJ Profile, Inch Controlled Radius Root with	Increased Minor Diameter	
AS33514	Fitting End, Standard Dimensions for Flareless Tube Connection	on and Gasket Seal	
AS85421	Fittings, Tube, Fluid Systems, Separable, Beam Seal, 3000/400	00 psi, General Specification For	
AS85421/1	Fitting End, Standard Dimensions for Dynamic Beam Seal, Mal	e	
2.2 ASME Dublications			

2.2 ASME Publications

Available from ASME, P.O. Box 2900, 22 Law Drive, Fairfield, NJ 07007-2900, Tel: 800-843-2763 (U.S./Canada), 001-800-843-2763 (Mexico), 973-882-1170 (outside North America), <u>www.asme.org</u>.

ASME B46.1 Surface Texture

ASME Y14.100M Engineering Drawing Practices

2.3 ASTM Publications

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

- ASTM A262 Standard Recommended Practices for Detecting Susceptibility to Intergranular Attack in Stainless Steel
- ASTM A313 Standard Specification for Stainless Steel Spring Wire
- ASTM A580 Specification for Stainless and Heat Resisting Steel Wire
- 2.4 NAS Standards

Available from Aerospace Industries Association, 1000 Wilson Boulevard, Suite 1700, Arlington, VA 22209-3928, Tel: 703-358-1000, <u>www.aia-aerospace.org</u>.

- NAS847 Caps and Plugs, Protective, Dust and Moisture Seal
- NAS1760 Fitting End, Flareless Acorn, Standard Dimensions for