



FIREFLEX® AERO

HIGH TEMPERATURE SLEEVE AS1072 AEROSPACE GRADE

JACKETED WITH A NON-PERMEABLE, HEAVY SILICONE COATING · STABLE TO 500°F

FireFlex® Aero (FI) is engineered from a dense braided fiberglass sleeve and a thick coating of self-extinguishing high temperature silicone rubber that withstands 500°F continuous exposure, and molten splash up to 2,000°F. Almost every aviation engine - turbine, turboprop or piston; civilian and military - uses FireFlex® Aero to protect critical hoses and wiring in the event of an engine compartment fire. FireFlex® Aero meets the specification of AS1072, allowing qualified hose assemblies to pass the fire resistance testing specification of AS1055D. The dense braided fiberglass interior insulates against energy loss in piping and hosing, while the high density silicone coating protects personnel from accidental injury.

SIZING CHART

Nominal Size	Part #	Wall Thickness	*Put-Ups		Available Colors	Lbs/100'
			M	L		
¼"	FIA0.25	.115"	50'	100'	2	8.04
⅜"	FIA0.38	.115"	50'	100'	2	9.96
7/16"	FIA0.44	.115"	50'	100'	2	12.96
½"	FIA0.50	.115"	50'	100'	2	14.04
5/8"	FIA0.63	.115"	50'	100'	2	20.04
¾"	FIA0.75	.115"	25'	50'	2	21.96
7/8"	FIA0.88	.115"	25'	50'	2	26.04
1"	FIA1.00	.115"	25'	50'	2	33.00
1⅛"	FIA1.13	.115"	25'	50'	2	35.04
1¼"	FIA1.25	.115"	25'	50'	2	36.96
1⅜"	FIA1.38	.115"	25'	50'	2	44.04
1½"	FIA1.50	.115"	25'	50'	2	48.00
1⅝"	FIA1.63	.115"	25'	50'	2	38.04
1¾"	FIA1.75	.115"	25'	50'	2	42.00
1⅞"	FIA1.88	.115"	25'	50'	2	44.04
2"	FIA2.00	.115"	25'	50'	2	48.00
2¼"	FIA2.25	.115"	25'	50'	2	55.00
2½"	FIA2.50	.115"	25'	50'	2	65.04
2¾"	FIA2.75	.115"	25'	50'	2	76.20
3"	FIA3.00	.115"	25'	50'	2	87.00

*Put-Ups: "M" = Shop Spool and "L" = Bulk Spool





FEATURES

Material	Silicone Jacketed Fiberglass
Grade	FIA
Wall Thickness	.115"
Drawing Number	TF001FIA-WD
Cutting	Scissors

ABRASION

Abrasion Resistance	EXTREME
Abrasion Test Machine	Taber 5150
Abrasion Test Wheel	Calibrase H-18
Abrasion Test Load	500g
Room Temperature	°F
Humidity	%
Small Hole In Coating	Test Cycles
Several Small Holes Worn Through Coating	Test Cycles
Coating Worn Through - No Wear On Fiberglass	Test Cycles
Material Destroyed	Test Cycles
Pre-Test Weight	mg
Post-Test Weight	mg
Test End Loss Of Mass Point Of Destruction	mg

PHYSICAL PROPERTIES

Monofilament Diameter (ASTM D-204)	NA
Flammability Rating	Non Flammable
Recommended Cutting	Scissors
Colors	2
Wall Thickness	.115"
Tensile Strength (Yarn) (ASTM D-2256 Lbs)	NA
Specific Gravity (ASTM D-792)	NA
Moisture Absorption % (ASTM D-570)	NA
Hard Vacuum Data (ASTM E-595 at 10-5 torr)	NA
TML	NA
CVCM	NA
WVR	NA
Smoke D-Max (ASTM E-662)	NA
Outgassing	NA
Oxygen Index (ASTM D-2863)	NA

CERTIFICATIONS



COLORS



Black (BK), Red (RD)

FLAMMABILITY

Rating	Non Flammable, Non Combustible
--------	--------------------------------

OPERATING TEMPERATURES

Melt Point (ASTM D-2117)	2,048°F / 1,120°C
Maximum Continuous (Mil-I-23053)	500°F / 260°C
Minimum Continuous (Mil-I-23053)	-65°F / -54°C

CHEMICAL RESISTANCE

1=No Effect 2=Little Effect 3=Affected 4=More Affected 5=Severely Affected

Aromatic Solvents	1
Aliphatic Solvents	1
Chlorinated Solvents	1
Weak Bases	1
Salts	1
Strong Bases	1
Salt Water (0-S-1926)	1
Hydraulic Fluid (MIL-H-5606)	1
Lube Oil (MIL-L-7808)	1
De-Icing Fluid (MIL-A-8243)	1
Strong Acids	2
Strong Oxidants	2
Esters/Ketones	1
UV Light	1
Petroleum	1
Fungus (ASTM G-21)	1
Halogen Free	Yes
RoHS	Yes
SVHC	NA

www.TECHFLEX.com

104 Demarest Road • Sparta, NJ 07871 • 1 (833) SLEEING • (973) 300-9242 • fax: (973) 300-9409

© 2023 Techflex® - Any unauthorized reproduction, in whole or part, in any medium whatsoever, without the express written permission of Techflex® is strictly forbidden. Techflex® product names and logos are registered trademarks of Techflex®, unless otherwise attributed. The contents and illustrations contained herein are believed to be reliable. Techflex® makes no warranties as to their accuracy or completeness and disclaims any liability in connection with their use. Techflex's® only obligations are those in standard terms of sale for these products and Techflex® will not be liable for any consequential or other damages arising due to misuse of these products or typographical errors or omissions. Users should make their own evaluation to determine the suitability of these products for their unique and specific applications.

08-01-23