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REV. B
AS1291™

FEDERAL SUPPLY CLASS
4720

RATIONALE

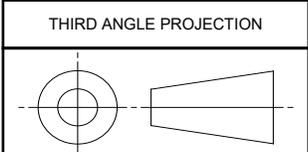
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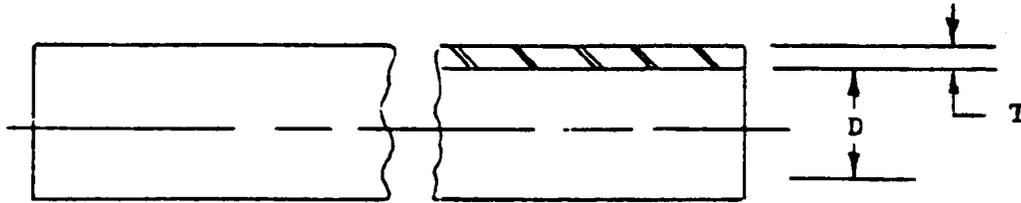
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ISSUED 1973-05 REVISED 1986-11 REAFFIRMED 2014-10 STABILIZED 2023-12

CUSTODIAN: G-3/G-3D		PROCUREMENT SPECIFICATION:	
	AEROSPACE STANDARD		AS1291™
	SLEEVE, HOSE ASSEMBLY, CHAFE GUARD, TFE OR FEP		



Size	D Inside Diameter						T Wall Thickness						Weight	
	Nominal		Maximum		Minimum		Nominal		Maximum		Minimum		lbs/ft	kgs/m
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm		
-1	.295	7.49	.310	7.87	.280	7.11	.030	.76	.040	1.02	.020	.51	.018	.027
-2	.368	9.35	.383	9.73	.353	8.97	.030	.76	.040	1.02	.020	.51	.023	.034
-3	.429	10.90	.444	11.28	.414	10.52	.030	.76	.040	1.02	.020	.51	.026	.039
-4	.495	12.57	.505	12.83	.475	12.07	.030	.76	.040	1.02	.020	.51	.030	.045
-5	.620	15.75	.635	16.13	.605	15.37	.030	.76	.040	1.02	.020	.51	.038	.056
-6	.723	18.36	.738	18.75	.708	17.98	.030	.76	.040	1.02	.020	.51	.042	.062
-7	.767	19.48	.782	19.86	.752	19.10	.030	.76	.040	1.02	.020	.51	.046	.068
-8	.845	21.46	.860	21.84	.830	21.08	.030	.76	.040	1.02	.020	.51	.050	.074
-9	.940	23.88	.955	24.26	.925	23.50	.030	.76	.040	1.02	.020	.51	.055	.081
-10	1.097	27.86	1.112	28.24	1.082	27.48	.030	.76	.040	1.02	.020	.51	.067	.099
-11	1.185	30.10	1.200	30.48	1.170	29.72	.030	.76	.040	1.02	.020	.51	.073	.108
-12	1.378	35.00	1.393	35.38	1.363	34.62	.030	.76	.040	1.02	.020	.51	.084	.124
-13	1.425	36.20	1.440	36.58	1.410	35.81	.030	.76	.040	1.02	.020	.51	.087	.129
-14	1.746	44.35	1.761	44.73	1.731	43.97	.030	.76	.040	1.02	.020	.51	.101	.150

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1.1 Usage:

Used as an outer protective cover on hose and/or hose assemblies to inhibit the detrimental effects of abrasion and other environmental conditions, thereby increasing service life.

1.2 Materials:

The following codes shall apply to the types and colors of teflon sleeving covered in this standard.

1.2.1 Code A: White, extruded, seamless polytetrafluoroethylene (TFE) tubing.

1.2.2 Code B: Black, extruded, seamless polytetrafluoroethylene (TFE) tubing.

1.2.3 Code C: Transparent, extruded, seamless fluorinated ethylene propylene (FEP) tubing.

1.2.4 Code D: Black, extruded, seamless, fluorinated ethylene propylene (FEP) tubing.

1.3 Resistance:

Sleeves shall have excellent abrasion resistance and shall not be abnormally affected by moisture, ozone, oxidation, hydraulic fluids, fuels, solvents and most other chemicals and fluids used in aircraft applications.

1.4 Physical Properties:

High tensile strength and an ability to retain useful flexibility, mechanical strength, and elongation over a large temperature range shall characterize these sleeves.

1.5 Temperature:

A suitable temperature range for each type of teflon sleeving shall apply as follows:

1.5.1 Code A: -65 °F thru +450 °F (-55 °C thru +232 °C).

1.5.2 Code B: -65 °F thru +450 °F (-55 °C thru +232 °C).

1.5.3 Code C: -65 °F thru +350 °F (-55 °C thru +177 °C).

1.5.4 Code D: -65 °F thru +350 °F (-55 °C thru +177 °C).

1.6 Identification:

Sleeves shall be identified by full (AS) part number (see paragraph 1.9.4) on a nonmetallic tag attached to each sleeve. The tag shall also bear the manufacturer's name or trademark.

	AEROSPACE STANDARD	AS1291™ SHEET 2 OF 3	REV. B
	SLEEVE, HOSE ASSEMBLY, CHAFE GUARD, TFE OR FEP		