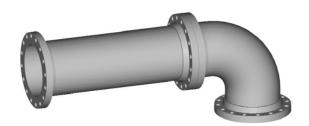
SILVER STREAK® LD Abrasion Resistant Pipe



PRODUCT

SILVER STREAK LD piping is specifically designed for flue gas desulfurization, FGD, recirculation piping applications. The pipe is a filament wound product using vinyl ester resins and continuous glass filaments. The standard 100 mil liner is manufactured using a proprietary blend of abrasion-resistant additives formulated specifically for limestone, gypsum and ammonium sulfate slurries. Custom liner thicknesses are available on special order.

Pipe and fittings are available in 30" through 48" diameter sizes with static pressure ratings up to 150 psig operating up to 200°F and full vacuum ratings. A recommended specification guide is available in Bulletin No. 2021.

FITTINGS

Compatible vinyl ester fittings are manufactured with the same chemical resistance and temperature/pressure capabilities as the pipe. The fittings are mitered fabrications available in long radius when required.

SHOP & FIELD JOINING

Pipe can be cut and easily prepared for joining in the shop or field. Piping joints may be joined using flanges or Butt & Wrap joints. See **Socket Joint Installation Handbook**, for installation procedures for your application.

FEATURES & BENEFITS

- · Standard sizes include with 30"-48" diameters
- Operating temperatures up to 200°F
- Operating pressures up to 150 psig
- · Full vacuum service
- Custom-fabricated assemblies are available.

DIMENSIONAL DATA

Nominal Pipe Size	Nominal I.D.		Nominal Wall Thickness		Nominal Liner		Nominal Weight		Max. Support Spacing ⁽¹⁾ @175°F	
in.	in.	mm	in.	mm	in.	mm	lbs./ft.	kg/m	ft.	m
30	30.19	767	0.65	16.5	0.100	2.54	50.3	75.3	33.5	10.2
36	36.19	919	0.73	18.5	0.100	2.54	68.1	101.3	36.1	11.0
42	42.19	1072	0.86	21.8	0.100	2.54	93.1	138.5	39.5	12.0
48	48.06	1221	0.94	23.9	0.100	2.54	116	172.6	48.4	14.7

⁽¹⁾ Based on ½" deflection at mid-span.



TYPICAL PHYSICAL PROPERTIES

Property	75°F	175°F	24°C	79°C
	psi	psi	MPa	MPa
Axial Tensile - ASTM D2105 Ultimate Stress Modulus of Elasticity	9,300	5,500	64.1	37.9
	1.50 x 10 ⁶	-	10,342	-
Poisson's Ratio	0.35			
Axial Compression - ASTM D695 Ultimate Stress Modulus of Elasticity	17,900	14,700	123	101
	1.40 x 10 ⁶	9.00 x 10⁵	9,653	6,205
Beam Bending - ASTM D2925 Ultimate Stress Modulus of Elasticity (Long Term)	14,500	8,000	100	55.2
	1.99 x 10 ⁶	1.14 x 10 ⁶	13,721	7,860
Hydrostatic Burst - ASTM D1599 Ultimate Hoop Tensile Stress	40,000	40,000	276	276
Hydrostatic Design - ASTM D2992, Procedure B - Hoop Tensile Stress Static 50 Year Life	12,000	-	82.7	-

Coefficient of Linear Thermal Expansion - ASTM D696	9.2 x 10 ⁻⁶ in/in/°F	16.6 x 10 ⁻⁶ mm/mm/°C		
Thermal Conductivity	0.11 BTU/hr-ft-°F	0.19 W(m)(°C)		
Specific Gravity - ASTM D792	1.86 (0.067 lb/in³)			
Flow Factor - SF / Hazen-Williams Coefficient	C-150			
Surface Roughness 1.7 x 10 ⁻⁶ Feet				
Manning's "n"	0.009 Inch			

ASTM D2996 Designation Codes

30" -48"	RTRP-12ET1-3110
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Vacuum Ratings

Nominal Pipe Size	75°F	150°F	175°F
Inches	psi	psi	psi
30	18.3	15.0	13.0
36	16.3	13.3	11.3
42	17.8	14.5	12.6



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