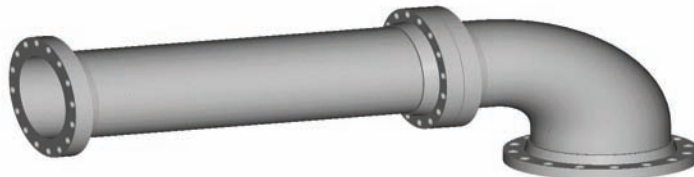


SMITH FIBERCAST
SILVER STREAK® LD
Abrasion Resistant Pipe



PRODUCT

SILVER STREAK LD piping is specifically designed for flue gas desulphurization, 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 Manual No. 6080, *Pipe 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 (In.)	Nominal I.D.		Nominal Wall Thickness		Nominal Liner		Nominal Weight		Max. Support Spacing(1) @175°F	
	(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

SILVER STREAK® Abrasion Resistant Pipe

TYPICAL PHYSICAL PROPERTIES

Property	75°F psi	175°F psi	24°C MPa	79°C MPa
Axial Tensile - ASTM D2105				
Ultimate Stress	9,300	5,500	64.1	37.9
Design Stress	2,325	1,375	16.0	9.5
Modulus of Elasticity	1.50 x 10 ⁶	-	10,342	-
Poisson's Ratio	0.35			
Axial Compression - ASTM D695				
Ultimate Stress	17,900	14,700	123	101
Design Stress	4,475	3,675	30.9	25.3
Modulus of Elasticity	1.40 x 10 ⁶	9.00 x 10 ⁵	9,653	6,205
Beam Bending - ASTM D2925				
Ultimate Stress	14,500	8,000	100	55.2
Design Stress	1,800	1,000	12.5	6.9
Modulus of Elasticity (Long Term)	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/in ³)			
Flow Factor - SF / Hazen-Williams Coefficient	C-150			
Surface Roughness	1.7 x 10 ⁻⁶ Feet			
Manning's "n"	0.009 Inch			

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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