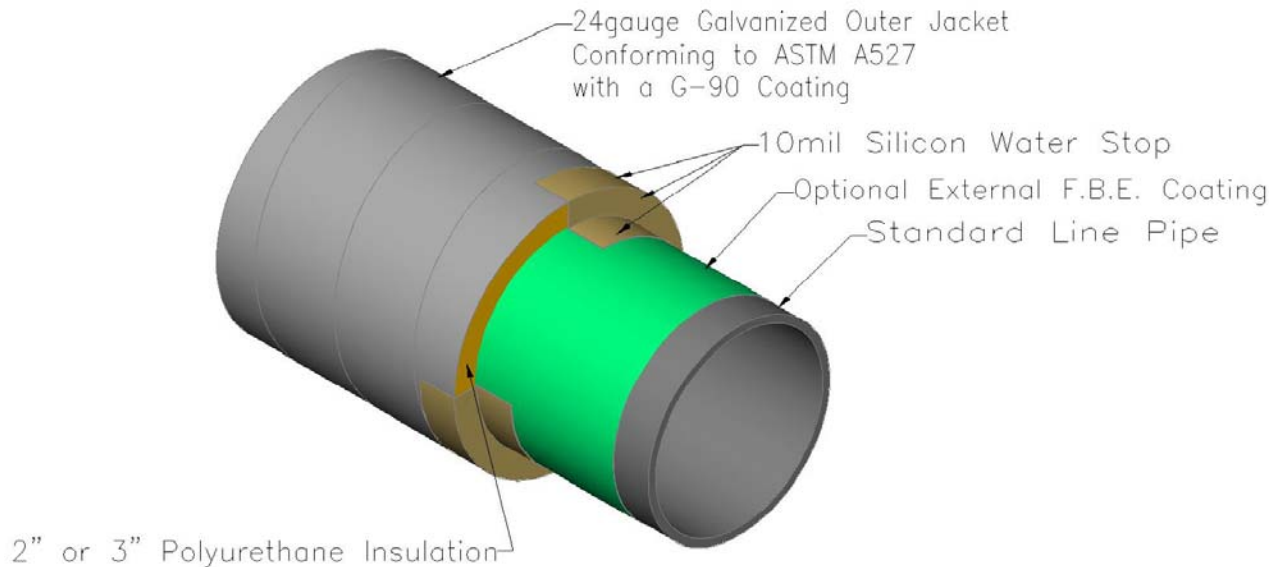


FLOWLINE ALASKA, INC.

Shop Applied Insulation Standard Submittal Sheet

Flowline Alaska's insulation system is applied externally over standard line pipe and consists of polyurethane foam insulation covered by an external jacket. Flowline Alaska has the ability to shop insulate pipe lengths ranging from twenty to eighty feet and 2" to 60" in diameter.



- Pipe can be insulated with 2" or 3" of insulation.
- Outer jacket is formed with an internal lockseam from 24-gauge galvanized sheet steel with 1/2" or less corrugation depths.
- Heat trace channels can be installed directly on the pipe O.D. in any quantity or configuration.
- Finished product will be marked with pipe O.D., wall, material grade and heat number(s).

INSULATION PHYSICAL PROPERTIES ¹	ASTM METHOD	VALUE	UNITS
Density	D1622	~ 3.5	lb / ft ³
Compressive Strength (Average)	D1621	45 min.	lb / in ²
Compressive Strength (Parallel)	D1621	45 min.	lb / in ²
Compressive Strength (Perpendicular)	D1621	45 min.	lb / in ²
Shear Strength (Average)	C273	15 min.	lb / in ²
Thermal Conductivity (Initial)	C518	0.185 max.	BTU*in / hr*ft ² *°F
Thermal Conductivity (Aged)	C518	0.200 max.	BTU*in / hr*ft ² *°F
Water Absorption	D2842	20% max	% by Weight
Closed Cell Content	D2856	85% max	-
Service Temperature	NA	-60 to +220	°F

(1) All Properties are measured at 74° F unless otherwise noted.