

Fire Resistant ARCTIC-SHIELD Fabric



Fire Resistant (FR) Arctic-Shield has been specifically designed for the Canadian climate and is the most advanced fabric on the market today for use in above ground secondary containment berms. Exclusive to SEI, this proprietary fabric comes in tan/green and features the following:

1. Suitable for deployment to -50 °C
2. Impermeable to fuel and hydrocarbons
3. Fire Resistant per NFPA 701
4. Exceeds the requirements set by Canadian Council of Ministers of the Environment (CCME) Environmental Code of Practice for Above Ground and Underground Storage Tank Systems Containing Petroleum and Allied Petroleum Products for secondary containment
5. Meets Environmental Canada regulations for fuel storage

PRODUCT APPLICATION TABLE

PRODUCT	DRUMS AND TANKS	COLLASP. FUEL TANKS	EQUIPMENT	VEHICLES	TRANSFER AREA
INSTA-BERM L-ROD	X		X		X
INSTA-BERM FRAME	X	X	X		X
RIDE-SIDE VEHICLE BERM	X		X	X	X
MINI-BERM	X		X		X
DRIP DEFENDER			X	X	X

SEI can use (FR) Arctic-Shield for any of its manufactured secondary containment products including Frame Supported Insta-Berms (Frame or L-Rod), Mini-Berms, Ride-Side Berms and Drip Defenders.

SEI can also provide certified secondary containment drawings for site permitting.

Fire Resistant ARCTIC-SHIELD Fabric Specifications



SEI's Insta-Berms (Frame and L-Rod) and other secondary containment systems help industries meet today's strict guidelines on environmental protection

The following fluids are acceptable for secondary containment in Arctic-Shield berms: Jet A, Jet B, JP-1, JP-4, JP-8, kerosene, avgas, diesel fuels with less than 60% aromatic content. Specifications subject to change without notice.

¹ NFPA 701 is a vertical flame test more rigorous than ULC-ORD-C58.9.

² Material tested after 30 days in ASTM IRM 902 reference fuel at room temperature. This test exceeds ULC-ORD-C58.9 and meets Canadian Council of Ministers of the Environment (CCME) above ground secondary containment requirements.

		STANDARD	METRIC	ASTM TEST METHODS
BASE FABRIC				
Base Fabric Weight		7.87 oz/yd ²	268 g/m ²	
Fabric / Style		Polyester / Woven		
COATED FABRIC				
Total Weight		36±2 oz/yd ²	1220±68 g/m ²	
Coat Type		TPU		
Coating Distribution		50 / 50		
MATERIAL PROPERTIES				
Tensile Strength, Grab	Warp	600 lbs	2,670 N	D751-A
	Fill	500 lbs	2,220 N	
Strip Tensile Strength		363 x 373 lbs/in	636 x 636 N/cm	D751
Tear Strength, Tongue	Warp	100 lbs	445 N	D751-B
	Fill	100 lbs	445 N	
Puncture, Screwdriver		100 lbs	445 N	D751
Puncture, Ball		600 lbs	2,670 N	D751
Hydrostatic Resistance		600 psi	4.1 MPa	D751-A
Adhesion RF		40 lbs/in	70 N/cm	D751
Low Temp		-65 °F	-54 °C	D2136
High Temp, Cont/Interim		180 / 200 °F	82 / 93 °C	D1204
Abrasion Resistance (Wheel H18 / 1 kg)		2,000 cycles		D3884
Flame Resistance ¹	Warp	0.4 sec		NFPA 701
	Fill	0.6 sec		
Immersion Testing ²	Strip Tensile	99% retained		D471
	Weight	-3.0% change		
	Thickness	+3.5% change		
	RF Adhesion	98% retained		
	Diffusion	6.23 x 10 ⁻⁵ oz/ft ² /h	0.019 g/m ² /h	MIL-T-52983