

# All Sidewinder Sleeve Material Specifications

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Material	Abrasion	Temp (Heat)	Temp (Cold)	U.V. Resistance	Chemical Resistance	Wicking	Puncture & Tear Resistance	Sparks Welding slag	Cost	Flexibility
1050B	3	4	2	3	3	4	2	8	2	2
5601	1	6	1	2	2	2	3	9	5	1
100417	2	7	5	3	3	1	2	10	4	4
300-600DP	8	6	3	4	7	7	6	9	1	2
HVO (Orange)	3	7	1	2	3	2	7	9	5	1
HV (Yellow)	3	7	1	2	3	2	7	9	5	1
35 UBG	1	6	1	2	2	1	1	7	9	6
20 UBG	1	7	1	1	1	1	1	9	6	1
18411	3	3	2	2	2	1	2	2	3	3
TGS (EJ-1650)	6	2	2	1	1	3	3	2	7	3
WS (24B-60)	9	2	4	2	3	4	4	1	6	4
CF (31600)	10	1	1	1	2	10	10	1	8	1
SF (Silicon Coated Fiberglass)	9	3	2	2	9	1	10	1	6	3
<b>Sidewinder Sleeve Legend</b>	<b>Range</b>	<b>1-3</b>	<b>Excellent</b>							
		<b>4-6</b>	<b>Good</b>							
		<b>9-10</b>	<b>Poor</b>							
Abrasion	Conforms to ISO Standard as an accepted norm. Abrasion is an arbitrary term subject to the application, ambient temperature, weather conditions, and operator interaction. See material applications for examples.									
	Range:	1-3	Excellent	200,000	Plus Cycles					
		4-6	Good	50,000	Plus Cycles					
		9-10	Poor	0	Not recommended for applications involving Abrasion					
Temperature (Heat)	Ambient temperature can be compared to Oven Heat - a high temperature working atmosphere in which the application must with stand. - The sleeve and the hose or cable can be at the same temperature Spot Heat is like welding sparks or sparks from grinding. Temperature decreases with distance from the source									
	Range	1-2	Excellent	1800	Degree F Intermittent					
		5-6	Good	250	Degree F Intermittent					
		10	Poor	120	Degree F Intermittent					
Temperature (Cold)	Range	1-2	Excellent	-60	Degree F Unaffected					
		3-4	Good	10	Degree F Slightly Stiffer					
U.V. Resistance	Range	1-3	Excellent	Direct sunlight with snow or water reflection, 3-5 years without structural compromise						
		4-6	Good	Outdoor application direct / indirect sunlight, 3 years without structural compromise						
		9-10	Poor	NOT suited for outdoor applications						
Chemical Resistance	Range	1-3	Excellent	Petroleum Oils, intermittent fuels, acids up to 38% solution, paint solvnet, caustics						
		4-6	Good	Petroleum oils, intermittent fuels, caustics 10% solutions, AG chemicals, antifreeze						
		9-10	Poor	Not recommended for use with Chemicals, material will lose all structural integrity						
Wicking	Range	1-2	Excellent	Total Sealed						
		5-6	Good	Resistance to Rain						
		9-10	Poor	Sponge						
Puncture / Tear Resistance	Range	1-3	Excellent	Effort to puncture with sharp object, difficult to cut, will not tear						
		4-6	Good	Requires sharp object to puncture, very difficult to tear with out sharp edge object						
		9-10	Poor	Can be torn with effort by hand						
Sparks / Welding	Range	1-3	Excellent	Resists all sparks, prevents momentary molten penetration, resist heat conductivity						
		4-6	Very Good	Resists all sparks, momentary red hot spall. Surface pitting minimal in heavy molten spall						
		9-10	Poor	Do not Use for this application, will melt and propogate a flame						