



## SPEC SEALS TECHNICAL REPORT V700-75 BLACK ASTM SPEC VITON COMPOUND

### GENERAL PROPERTIES

VITON is DuPont-Dow Elastomer's trade name for Fluorocarbon Elastomers. These compounds offer the best resistance to a combination of chemicals, weather, and compression set over a temperature range of -20F to +400F. SPEC SEALS' V700-75 meets all popular ASTM D2000/SAE J200 Specifications.

### SPEC SEALS V700-75

<u>ASTM Designation</u>	<u>ORIGINAL PROPERTIES</u>	<u>ASTM D2000 SPECIFICATION</u>	<u>LABORATORY PROPERTY</u>
	Durometer, Shore A	75 +/- 5	76
	Tensile, psi (MPa), Minimum	1450 (10)	1773 (12)
	Elongation, % Minimum	150	220
	Specific Gravity	-	1.85
A1-10	<u>HEAT AGE, 70 HRS @ 250 C</u>		
	Durometer Change, Points	+10	+2
	Tensile Strength Change, % Maximum	-25	+5
	Elongation Change, % Maximum	-25	-8
B38	<u>COMPRESSION SET, 22 HRS @ 200 C</u>		
	Original Deflection, % Maximum	15	10.8
C12	<u>RESISTANCE TO OZONE</u>		
	ASTM D1171, Method B	No Cracks	Pass
C20	<u>RESISTANCE TO OUTDOOR AGING</u>		
	ASTM D1171	No Cracks	Pass
EF31	<u>FUEL AGE, 70 HRS @23C in Reference Fuel C</u>		
	Durometer Change, Points	+/-5	-1
	Tensile Change, % Maximum	-25	-14
	Elongation Change, % Maximum	-20	-12
	Volume Change, %	0/+10	+3
EO88	<u>FLUID RESISTANCE, 70 HRS @200C in Stauffer 7700/SAE Fluid No. 2</u>		
	Durometer Change, Points	-15/+5	-6
	Tensile Change, % Maximum	-40	-21
	Elongation Change, % Maximum	-20	-14
	Volume Change, % Maximum	+25	+8
F15	<u>LOW TEMPERATURE BRITTLENESS</u>		
	ASTM D2137, Method A, 9.3.2		
	3 Minutes @ -25 C	Non-Brittle	Pass

### SPECIFICATIONS MET

ASTM D2000-01 Grade M6HK810 A1-10 B38 C12 C20 EF31 EO88 F15

### MANUFACTURER'S CROSS REFERENCE

V700-75 is designed to meet or exceed the properties of these popular Viton Compounds:

V747-75, 19357, V14-75, 9009-75, F13664, 514AD.