

# BOYD CORPORATION

## TECHNICAL REPORT V708-75 BROWN 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. The V708-75 is **BROWN IN COLOR** and meets all popular ASTM D2000/SAE J200 Specifications.

<u>ASTM Designation</u>	<u>ORIGINAL PROPERTIES</u>	<u>ASTM D2000 SPECIFICATION</u>	<u>V708-75 LABORATORY PROPERTY</u>
Z1	Durometer, Shore A Tensile, psi (MPa), Minimum Elongation, % Minimum Specific Gravity	75 +/- 5 1450 (10) 150 -	76 1690 (11) 185 2.02
A1-10	<u>HEAT AGE, 70 HRS @ 250 C</u> Durometer Change, Points Tensile Strength Change, % Maximum Elongation Change, % Maximum	+10 -25 -25	+2 +5 -8
B38	<u>COMPRESSION SET, 22 HRS @ 200 C</u> Original Deflection, % Maximum	15	14.2
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 Tensile Change, % Maximum Elongation Change, % Maximum Volume Change, %	+/-5 -25 -20 0/+10	-1 -14 -12 +3
EO88	<u>FLUID RESISTANCE, 70 HRS @200C in Stauffer 7700/SAE Fluid No. 2</u> Durometer Change, Points Tensile Change, % Maximum Elongation Change, % Maximum Volume Change, % Maximum	-15/+5 -40 -20 +25	-6 -21 -14 +8
Z2	<u>LOW TEMPERATURE RETRACTION</u> TR10, Degrees C	-	-15.8

### SPECIFICATIONS MET

ASTM D2000-01 Grade M6HK810 A1-10 B38 C12 C20 EF31 EO88 Z1=75+/-5 Durometer  
Z2=Low Temperature TR10

### MANUFACTURER'S CROSS REFERENCE

V708-75 is designed to meet or exceed the properties of these popular Brown Color Viton® Compounds:  
V884-75, 16207, V35-75, 9005-75, F13327 and 9505-75