

TECHNICAL REPORT N168-70 FDA NITRILE COMPOUND

GENERAL PROPERTIES

The N168-70 Nitrile (BUNA-N) is a copolymer of butadiene and acrylonitrile. This compound is a special Black Color FDA Grade Nitrile (BUNA-N) that is acceptable for use over a temperature range of -40F to +250F. The ingredients in the N168-70 are listed in the U.S. Code of Federal Regulations (21 CFR 177.2600) as being acceptable for repeated use in contact with food. This compound meets the following popular ASTM Specifications.

ASTM <u>Designation</u>	ORIGINAL PROPERTIES Durometer, Shore A Tensile, psi (MPa), Minimum Elongation, % Minimum Specific Gravity	ASTM D2000 <u>SPECIFICATION</u> 70 +/- 5 2031 (14) 250	N168-70 LABORATORY <u>PROPERTY</u> 72 2420 (17) 310 1.24
	<u>HEAT AGE, 70 HRS @ 100 C</u> Durometer Change, Points Tensile Strength Change, % Maximum Elongation Change, % Maximum	+/-15 +/-30 -50	+3 +7 -21
B14	<u>COMPRESSION SET, 22 HRS @ 100 C</u> Original Deflection, % Maximum	25	18
EA14	WATER RESISTANCE, 70 HRS @ 100C Durometer Change, Points Volume Change, %	+/-10 +/-15	+2 +6.2
Z1	LOW TEMPERATURE RETRACTION TR10, Degrees C	-	-30.5

SPECIFICATIONS MET

ASTM D2000 Grade M2BG714 B14 EA14 Z1=TR10 Z2=Meets FDA CFR 177.2600

MANUFACTURER'S CROSS REFERENCE

N168-70 is designed to meet or exceed the properties of these popular Nitrile Compounds: N1069-70, N508-75, 7077, C22-70, 2068-70, H14100 and 275B.