



**SPEC SEALS TECHNICAL REPORT
N168-70 FDA NITRILE COMPOUND**

GENERAL PROPERTIES

This special Black Color FDA Grade Nitrile (BUNA-N) is acceptable for use over a temperature range of -40F to +250F. The ingredients in SPEC SEALS' 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.

		SPEC SEALS N168-70	
ASTM		ASTM D2000	LABORATORY
<u>Designation</u>	<u>ORIGINAL PROPERTIES</u>	<u>SPECIFICATION</u>	<u>PROPERTY</u>
	Durometer, Shore A	70 +/- 5	72
	Tensile, psi (MPa), Minimum	2031 (14)	2420 (17)
	Elongation, % Minimum	250	310
	Specific Gravity	-	1.24
	<u>HEAT AGE, 70 HRS @ 100 C</u>		
	Durometer Change, Points	+/-15	+3
	Tensile Strength Change, % Maximum	+/-30	+7
	Elongation Change, % Maximum	-50	-21
B14	<u>COMPRESSION SET, 22 HRS @ 100 C</u>		
	Original Deflection, % Maximum	25	18
EA14	<u>WATER RESISTANCE, 70 HRS @ 100C</u>		
	Durometer Change, Points	+/-10	+2
	Volume Change, %	+/-15	+6.2
F17	<u>LOW TEMPERATURE BRITTLINESS</u>		
	ASTM D2137, Method A, 9.3.2		
	3 Minutes @ -40 C	Non-Brittle	Pass

SPECIFICATIONS MET

ASTM D2000-01 Grade M2BG714 B14 EA14 F17 * FDA CFR177.2600

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.