



**Compound Data Sheet**  
**O-Ring Division United States**

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# MATERIAL REPORT

REPORT NUMBER: KT1752

DATE: 06/12/85

**TITLE:** Evaluation of FDA Nitrile Material N0508-75.

**PURPOSE:** Physical data profile.

**Recommended Temperature Range:** -30 to 180F

**Recommended for:** petroleum oils, water (up to 212F),  
Salt & Alkali solutions, weak acids

**Not Recommended for:** aromatic fuels, strong acids,  
glycols, ozone, polar solvents

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## REPORT DATA

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### ORIGINAL PHYSICAL PROPERTIES

### COMPOUND N0508-75

Hardness, Shore A, pts.	73
Tensile Strength, psi.	2042
Elongation, %	488
Modulus @ 100%, psi.	552

### AGING IN WATER

#### 70 HRS. @ 212°F

Hardness Change, pts	- 8
Tensile Change, %	- 6
Elongation Change, %	+ 1
Volume Change, %	+ 4.3
Modulus Change, %	- 36

### AGING IN AIR

#### 70 HRS. @ 212°F

Hardness Change, %	+ 7
Tensile Change, %	+ 16
Elongation Change, %	- 24

### FLUID IMMERSION

#### PEANUT OIL

#### 70 HRS. @ 212°F

Hardness Change, %	0
Tensile Change, %	+ 17
Elongation Change, %	- 18
Volume Change, %	- 1.0