



Compound Data Sheet  
O-Ring Division United States

---

# MATERIAL REPORT

REPORT NUMBER: KA8243  
DATE: 10/30/90

**TITLE:** Evaluation of Parker Compound N0506-65 to Requirements of Specification AMS 7271G.

**PURPOSE:** To document conformance of first article testing.

**CONCLUSION:** Parker compound N0506-65 meets the requirements of specification AMS 7271G.

**Recommended Temperature Range:** -70 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

Parker O-Ring Division  
2360 Palumbo Drive  
Lexington, Kentucky 40512  
(859) 269-2351

# REPORT DATA

Report Number: KA8243

COMPOUND: N0506-65  
SIZE: 0023-9070GOVT/2-  
KA: 8243  
B/N: 813332

## AS RECEIVED

Hardness, Duro 'A'  
Tensile Strength, psi., min.  
Elongation, % min.  
Specific Gravity  
Corrosion

AMS 7271G  
SPECIFICATION  
60 - 70  
1200  
0  
Report  
Nil

## RESULTS

66  
1284  
252  
1.24  
None

## AROMATIC AND NON-AROMATIC FUEL

Fuel A, 70 hrs. @ 68 - 86°F

Volume Change, % max.

Positive swell +20

FUEL B, 70 HRS. @ 68 - 86°F

VOLUME CHANGE, % max.

+40 to +70 +60

DRY OUT, 48 HRS. @ 158°F ± 2°

VOLUME CHANGE, % max.

-15 -12

FUEL A, 5 HRS. @ 68 - 86°F

VOLUME CHANGE, % max.

-5 +7

## LOW TEMPERATURE FLEXIBILITY

As received, 5 hrs. @ -58°F

Pass Pass

AFTER AROMATIC FUEL AND DRY,

5 HRS. @ -53°F

Pass Pass

## DRY HEAT RESISTANCE

70 HRS. @ 257°F +5°

Hardness Change

0 to 15 +11 (77)

Tensile Strength Change, % max.

-25 +2 (1311)

Elongation Change, % max.

-50 -33 (169)

Bend (Flat)

No cracking  
or checking No cracking  
or checking

## COMPRESSION SET,

70 HRS. A 257°F + 5°

% of original deflection, max.

ring cross section diameter, inch

0.066 to 0.110, incl.

85 76

over 0.110

75

## SIMULATED COMPONENT TEST

Pass Pass

## DRY NECKDOWN TEST

Pass Pass

## WET NECKDOWN TEST

Pass Pass