



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