



MATERIAL REPORT

REPORT NUMBER: KK2200
DATE: 5/18/1998

TITLE: First Article Test Report for Compound L1223-60 to MIL-R-25988B, Type 1, Class 1, GR 60

PURPOSE: To Determine if compound meets MIL-R-25988B.

CONCLUSION: Parker Compound L1223-60 meets all phases of the specification.

Recommended temperature limits: -100 °F to 350 °F

Recommended For

Aromatic mineral oils (IRM 903 oil)

Petroleum oils

Low molecular weight automatic hydrocarbons (benzene, toluene)

Jet Fuels

Chlorinated Solvents

Dry heat and low temp

Not Recommended For

Phosphate-esters

Acids

Ketones

Amines (ammonia)

Auto and aircraft brake fluids



REPORT DATA

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| | <u>MIL-R-25988B Ty I, CL I, Gr 60 Requirements</u> | <u>L1223-60 2-214 o-ring Results</u> |
|---|--|--|
| <u>Basic Physical Properties</u> | | |
| Hardness | 60 ±5 | 60 |
| Tensile Strength, psi. | 700 | 1066 |
| Elongation, % | 150 | 286 |
| Temperature Retraction, °F, max | -70 | -82 |
| Specific Gravity | As Determined | 1.46 |
| <u>Compression Set After Air Aging, 70 H @ 75°F</u> | | |
| Under 0.110 " | 20 | 5.9 |
| Over 0.110 " | 15 | 5.5 |
| <u>After Air Aging, 70 H @ 392 °F</u> | | |
| Hardness Change, pts | +10, -5 | 0 |
| Tensile Change, % | 25 | -11.2 |
| Elongation Change, % | 25 | -.3 |
| Weight Loss, % max | 2 | -1.8 |
| <u>Compression Set, % max After Air Aging, 22 H @ 347°F</u> | | |
| Under 0.110 " | 45 | 11.8 |
| Over 0.110 " | 40 | 11.8 |
| <u>After Air Aging in AMS 3021, 70 H @ 302°F</u> | | |
| Hardness Change, pts | ±15 | -6 |
| Tensile Change, % | 45 | -26.8 |
| Elongation Change, % | 30 | -6.6 |
| Volume Change, % | 1 to 15 | 6.8 |
| <u>Compression Set, %, max</u> | | |
| Under 0.110 " | 50 | 5.9 |
| Over 0.110 " | 45 | 6.7 |
| <u>After Air Aging, 22 H @ 75 °F in TT- S-735, Type III</u> | | |
| Hardness, Change, pts, max | -20 | -5 |
| Tensile, Decrease, % max | 50 | -37.2 |
| Elongation, Decrease, % max | 40 | -23.8 |
| Volume, Change, % | 1 to 25 | 18 |