



MATERIAL REPORT

REPORT NUMBER: KK2192

DATE: 10/18/93

TITLE: Evaluation of Parker Compound V1006-75 to AMS 7255

PURPOSE: To determine conformance.

CONCLUSION: Parker Compound V1006-75 meets the requirements of AMS 7255.

Recommended Temperature Range: 25 to 450F

Recommended for: bases, sour oil & gas, steam, phosphate esters, amines, petroleum oils, acids, ozone, alcohols

Not Recommended for: aromatic fuels, ketones, carbon tetrachloride, ethers, non-polar solvents, acetic acid, organic acetates

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REPORT DATA

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<u>ORIGINAL PROPERTIES</u>	<u>AMS 7255 SPECIFICATION</u>	<u>2-214 RESULTS</u>	<u>ASTM SPECIMENS</u>
Hardness, Shore A, pts	75 ± 5	78	
Tensile Strength, MPa (psi), min	11.0 (1600)	12.0 (1746)	
Elongation, %, min	150	242	
Specific Gravity	Preproduction Value ± .02		
Corrosion		Nil	Nil
 <u>SYNTHETIC OIL RESISTANCE, AMS 3021, AKZO BLEND 7700, 70 HRS. @ 175° C (347° F)</u>			
Hardness Change, pts., max.	-20	-11	
Tensile Change, %, max.	-30	-19	
Elongation Change, %, max	-20	+33	
Volume Change, %	0 to +28	+18	
 <u>OIL RESISTANCE ASTM REF OIL #3 70 HRS. @ 150° C (302° F)</u>			
Hardness Change, pts., max.	0 to -12	-7	
Tensile Change, %, max.	-20	-8	
Elongation Change, %, max	-20	+35	
Volume Change, %	0 to +15	+12	
 <u>HYDRAULIC FLUID RESISTANCE, AS1241 TYPE IV CLASS II, CHEVRON HY-JET IV-A 70 HRS. @ 107° C (225° F)</u>			
Hardness Change, pts., max.	-20	-17	
Tensile Change, %, max.	-40	-34	
Elongation Change, %, max	-20	+24	
Volume Change, %	0 to +30	+29	
 <u>DRY HEAT RESISTANCE 70 HRS. @ 250° C (482° F)</u>			
Hardness Change, pts., max.	± 5	+1	
Tensile Change, %, max.	-20	+17	
Elongation Change, %, max	-20	+36	
Weight Change, %	-5	-3	
 <u>ALKALINE FLUID RESISTANCE 50% NaOH SOLUTION 70 HRS. @ 100° C (212° F)</u>			
Hardness Change, pts., max.	± 5	+3	
Tensile Change, %, max.	-10	+25	
Elongation Change, %, max	-5	+22	
Volume Change, %	0 to +3	+0	

COMPRESSION SET,
22 HRS @ 175° C (347° F)
% of Original Deflection

30

25

COMPRESSION SET,
168 HRS @ 175° C (347° F)
% of Original Deflection

45

41

COMPRESSION SET,
22 HRS @ 200° C (392° F)
% of Original Deflection

35

24

LOW TEMP RESISTANCE

TR - 10° C (°F), max.

+4 (+39)

+2 (+36)

Brittle Point, °C (°F), max.

-35 (-31)

Pass