



R.E.A.L. SEAL CO.
MATERIAL DATA SHEET
COMPOUND # 9470

<u>ORIGINAL PHYSICAL PROPERTIES</u>	<u>SPEC</u>	<u>9470</u>
HARDNESS, SHORE A PTS	70 +/-5	72
ULTIMATE TENSILE STRENGTH, PSI	1450 MIN	1605
ULTIMATE ELONGATION, %	100 MIN	195
MODULUS @ 100%, PSI	----	660
 <u>HEAT RESISTANCE (ASTM D 573)</u>		
<u>70 HRS @ 232 C</u>		
CHANGE IN HARDNESS, PTS	+/- 5	NC
CHANGE IN TENSILE, %	-15 MAX	-8
CHANGE IN ELONGATION, %	-15 MAX	+7
CHANGE IN WEIGHT, %	REPORT	-0.08
 <u>HEAT RESISTANCE (ASTM D 573)</u>		
<u>168 HRS @ 232 C</u>		
CHANGE IN HARDNESS, PTS	+/- 15	-5
CHANGE IN TENSILE, %	-50 MAX	-41
CHANGE IN ELONGATION, %	-75 MAX	+74
CHANGE IN WEIGHT, %	REPORT	-1.70
 <u>HEAT RESISTANCE (ASTM D 573)</u>		
<u>720 HRS @ 232 C</u>		
CHANGE IN HARDNESS, PTS	----	-7
CHANGE IN TENSILE, %	----	-68
CHANGE IN ELONGATION, %	----	+119
CHANGE IN WEIGHT, %	----	-2.50
 <u>FLUID RESISTANCE (ASTM D 471)</u>		
<u>168 HRS IN GLACIAL ACETIC ACID @ 40 C</u>		
CHANGE IN DURO, PTS	-10 MAX	-4
CHANGE IN VOLUME, %	+10 MAX	+0.21
 <u>FLUID RESISTANCE (ASTM D 471)</u>		
<u>168 HRS IN 10% ACETIC ACID @ 40 C REFLUX</u>		
CHANGE IN DURO, PTS	-10 MAX	-1
CHANGE IN VOLUME, %	+10 MAX	+0.43

FLUID RESISTANCE (ASTM D 471)
168 HRS IN ACETIC ANHYDRIDE @ 23 C

CHANGE IN DURO, PTS	-10 MAX	NC
CHANGE IN VOLUME, %	+10 MAX	+0.93

FLUID RESISTANCE (ASTM D 471)
168 HRS IN ACETONE @ 23 C

CHANGE IN DURO, PTS	-10 MAX	-2
CHANGE IN VOLUME, %	+10 MAX	-0.56

FLUID RESISTANCE (ASTM D 471)
168 HRS IN BUTYL ACETATE @ 23 C

CHANGE IN DURO, PTS	-10 MAX	-4
CHANGE IN VOLUME, %	+10 MAX	-0.70

FLUID RESISTANCE (ASTM D 471)
168 HRS IN CYCLOHEXANONE @ 23 C

CHANGE IN DURO, PTS	-10 MAX	NC
CHANGE IN VOLUME, %	+10 MAX	-0.64

FLUID RESISTANCE (ASTM D 471)
168 HRS IN DMF @ 23 C

CHANGE IN DURO, PTS	-10 MAX	-1
CHANGE IN VOLUME, %	+10 MAX	+0.13

FLUID RESISTANCE (ASTM D 471)
168 HRS IN ETHANOLAMINE @ 23 C

CHANGE IN DURO, PTS	-10 MAX	-2
CHANGE IN VOLUME, %	+10 MAX	-1.51

FLUID RESISTANCE (ASTM D 471)
168 HRS IN ETHYL ACETATE @ 23 C

CHANGE IN DURO, PTS	-10 MAX	-3
CHANGE IN VOLUME, %	+10 MAX	+0.1

FLUID RESISTANCE (ASTM D 471)
168 HRS IN FREON 134A @ 23 C

CHANGE IN DURO, PTS	-15 MAX	-14
CHANGE IN VOLUME, %	+20 MAX	+15.33

FLUID RESISTANCE (ASTM D 471)
168 HRS IN FREON 134A @ 100 C

CHANGE IN DURO, PTS	-25 MAX	-19
CHANGE IN VOLUME, %	+35 MAX	+28.49

FLUID RESISTANCE (ASTM D 471)
168 HRS IN HEXANE @ 23 C

CHANGE IN DURO, PTS	-10 MAX	NC
CHANGE IN VOLUME, %	+10 MAX	+0.59

FLUID RESISTANCE (ASTM D 471)

168 HRS IN 10% HCL @ 23 C

CHANGE IN DURO, PTS	-10 MAX	-1
CHANGE IN VOLUME, %	+10 MAX	+0.5

FLUID RESISTANCE (ASTM D 471)

168 HRS IN HF, 60% @ 23 C

CHANGE IN DURO, PTS	-10 MAX	+1
CHANGE IN VOLUME, %	+10 MAX	+1.68

FLUID RESISTANCE (ASTM D 471)

70 HRS IN IRM 903 @ 230 C

CHANGE IN DURO, PTS	-10 MAX	-1
CHANGE IN VOLUME, %	+10 MAX	+1.87

FLUID RESISTANCE (ASTM D 471)

168 HRS IN METHANOL @ 23 C

CHANGE IN DURO, PTS	-10 MAX	-1
CHANGE IN VOLUME, %	+10 MAX	-1.13

FLUID RESISTANCE (ASTM D 471)

70 HRS IN MEK @ 23 C

CHANGE IN DURO, PTS	-10 MAX	NC
CHANGE IN VOLUME, %	+10 MAX	-0.63

FLUID RESISTANCE (ASTM D 471)

168 HRS IN MIBK @ 23 C

CHANGE IN DURO, PTS	-10 MAX	NC
CHANGE IN VOLUME, %	+10 MAX	-0.19

FLUID RESISTANCE (ASTM D 471)

168 HRS IN MTBE @ 23 C

CHANGE IN DURO, PTS	-10 MAX	-1
CHANGE IN VOLUME, %	+10 MAX	-0.94

FLUID RESISTANCE (ASTM D 471)

70 HRS IN MOBILE OIL #254 @ 200 C

CHANGE IN DURO, PTS	-10 MAX	-2
CHANGE IN VOLUME, %	+10 MAX	-0.16

FLUID RESISTANCE (ASTM D 471)

250 HRS IN MOBILE OIL #254 @ 200 C

CHANGE IN DURO, PTS	-10 MAX	-4
CHANGE IN VOLUME, %	+10 MAX	-0.89

FLUID RESISTANCE (ASTM D 471)

168 HRS IN NITRIC ACID, 70% @ 23 C

CHANGE IN DURO, PTS	-10 MAX	-3
CHANGE IN VOLUME, %	+10 MAX	+6.78

FLUID RESISTANCE (ASTM D 471)

168 HRS IN PYRIDINE @ 23 C

CHANGE IN DURO, PTS	-10 MAX	-1
CHANGE IN VOLUME, %	+10 MAX	+0.23

FLUID RESISTANCE (ASTM D 471)

168 HRS IN SKYDROL 500 @ 121 C

CHANGE IN DURO, PTS	-10 MAX	-4
CHANGE IN VOLUME, %	+10 MAX	+2.00

FLUID RESISTANCE (ASTM D 471)

70 HRS IN SKYDROL 500 @ 121 C

CHANGE IN DURO, PTS	-10 MAX	-2
CHANGE IN VOLUME, %	+10 MAX	+3.5

FLUID RESISTANCE (ASTM D 471)

168 HRS IN SODIUM HYDROXIDE @ 23 C

CHANGE IN DURO, PTS	-10 MAX	-1
CHANGE IN VOLUME, %	+10 MAX	+0.54

FLUID RESISTANCE (ASTM D 471)

168 HRS IN SODIUM HYDROXIDE @ 100 C

CHANGE IN DURO, PTS	-10 MAX	NC
CHANGE IN VOLUME, %	+10 MAX	+0.84

FLUID RESISTANCE (ASTM D 471)

168 HRS IN SATURATED STEAM @ 160 C

CHANGE IN DURO, PTS	-15 MAX	-9
CHANGE IN VOLUME, %	+15 MAX	+8.88

FLUID RESISTANCE (ASTM D 471)

168 HRS IN SATURATED STEAM @ 232 C

CHANGE IN DURO, PTS	-----	-16
CHANGE IN VOLUME, %	-----	+17.23

FLUID RESISTANCE (ASTM D 471)

168 HRS IN SATURATED STEAM @ 250 C

CHANGE IN DURO, PTS	-----	-33
CHANGE IN VOLUME, %	-----	+57.42

FLUID RESISTANCE (ASTM D 471)

168 HRS IN STYRENE @ 23 C

CHANGE IN DURO, PTS	-10 MAX	-1
CHANGE IN VOLUME, %	+10 MAX	-0.25

FLUID RESISTANCE (ASTM D 471)

168 HRS IN SULFURIC ACID, CONCENTRATED @ 40 C

CHANGE IN DURO, PTS	-10 MAX	-1
CHANGE IN VOLUME, %	+10 MAX	+0.51

FLUID RESISTANCE (ASTM D 471)

168 HRS IN SULFURIC ACID, CONCENTRATED @ 120 C

CHANGE IN DURO, PTS	-10 MAX	-1
CHANGE IN VOLUME, %	+10 MAX	+3.44

FLUID RESISTANCE (ASTM D 471)

168 HRS IN THF @ 23 C

CHANGE IN DURO, PTS	-10 MAX	-4
CHANGE IN VOLUME, %	+10 MAX	-0.23

FLUID RESISTANCE (ASTM D 471)

168 HRS IN THF @ 40 C

CHANGE IN DURO, PTS	-10 MAX	-4
CHANGE IN VOLUME, %	+10 MAX	+1.61

FLUID RESISTANCE (ASTM D 471)

168 HRS IN TOLUENE @ 23 C

CHANGE IN DURO, PTS	-10 MAX	-2
CHANGE IN VOLUME, %	+10 MAX	-0.91

FLUID RESISTANCE (ASTM D 471)

168 HRS IN TOLUENE @ 40 C

CHANGE IN DURO, PTS	-10 MAX	-3
CHANGE IN VOLUME, %	+10 MAX	+0.90

FLUID RESISTANCE (ASTM D 471)

168 HRS IN TRIETHANOLAMINE @ 23 C

CHANGE IN DURO, PTS	-10 MAX	-2
CHANGE IN VOLUME, %	+10 MAX	+0.01

FLUID RESISTANCE (ASTM D 471)

168 HRS IN WAGNER 21B BRAKE FLUID @ 23 C

CHANGE IN DURO, PTS	-10 MAX	NC
CHANGE IN VOLUME, %	+10 MAX	+0.67

FLUID RESISTANCE (ASTM D 471)

168 HRS IN WATER @ 160 C

CHANGE IN DURO, PTS	-15 MAX	-11
CHANGE IN VOLUME, %	+15 MAX	+14.55

FLUID RESISTANCE (ASTM D 471)

168 HRS IN WATER @ 232 C

CHANGE IN DURO, PTS	-----	-28
CHANGE IN VOLUME, %	-----	+32.06

FLUID RESISTANCE (ASTM D 471)

168 HRS IN WATER @ 250 C

CHANGE IN DURO, PTS	-----	-38
CHANGE IN VOLUME, %	-----	+63.17

FLUID RESISTANCE (ASTM D 471)

168 HRS IN XYLENE @ 23 C

CHANGE IN DURO, PTS

-10 MAX

-1

CHANGE IN VOLUME, %

+10 MAX

+0.18

COMPRESSION SET (ASTM D 395B)

70 HRS @ 200 C

% SET

35 MAX

24

COMPRESSION SET (ASTM D 395B)

168 HRS @ 200 C

% SET

35 MAX

29

COMPRESSION SET (ASTM D 395B)

720 HRS @ 200 C

% SET

REPORT

76