Engineered Seal Products
5920 Dry Creek Ln NE
Cedar Rapids, IA 52402
www.espint.com

S8082

Revision: A

MATERIAL:	VMQ
COMPOUND:	S8082
SPECIFICATION:	ASTM D2000 M5GE706 A19 B37 EA14 EO16 EO36 F19
COLOR:	RUST
CERTIFICATIONS:	UL RECOGNIZED
ADDITIONAL NOTES:	PEROXIDE CURED

Spec	Original Physical and Mechanical Properties	Requirements	Result
	Hardness, Shore A Pts, ASTM D 2240	70±5	69
	Tensile Strength, MPa (psi) min., ASTM D 412	6.0 (870)	6.50 (943)
	Ultimate Elongation, % min., ASTM D 412	150	221
	Modulus @ 100%, MPa (psi), ASTM D 412	-	4.34 (630)
	Specific Gravity	-	1.32

A19	Heat Resistance (ASTM D 573) 70 h @ 225°C	Requirements	Result
	Change in Hardness, Pts max.	10	2
	Change in Tensile, % max.	-25	-8
	Change in Elongation, % max.	-30	-28
	Change in Weight, %	-	-2.3

B37	Compression Set (ASTM D 395, Method B) 22 h @ 175°C	Requirements	Result
	% Of Original Deflection, max.	25	20

EA14	Water Resistance (ASTM D 471) 70 h @ 100°C	Requirements	Result
	Change in Hardness, Pts	±5	-1
	Change in Tensile, %	-	-3
	Change in Elongation, %	-	-14
	Change in Volume, %	±5	1.7

Note: the values listed above are only valid for material samples prepared for laboratory test purposes as documented in the standards listed above

EO16	**Oil Resistance (ASTM D 471) 70 h in IRM901 @ 150°C**	**Requirements**	**Result**
	Change in Hardness, Pts	-15~0	-6
	Change in Tensile, % max.	-20	-3
	Change in Elongation, % max.	-20	-6
	Change in Volume, %	0~+10	4.3

EO36	**Oil Resistance (ASTM D 471) 70 h in IRM903 Oil @ 150°C**	**Requirements**	**Result**
	Change in Hardness, Pts max.	-30	-20
	Change in Tensile, %	-	-21
	Change in Elongation, %	-	-14
	Change in Volume, % max.	60	33.6

F19	**Low Temperature Brittleness Point Test (ASTM D 2137, Method C) 3 m @ -55°C**	**Requirements**	**Result**
	Sample type: T-50		
	Coolant: Isopropyl alcohol		
	Low Temperature Property	No Crack	Pass

Note: the values listed above are only valid for material samples prepared for laboratory test purposes as documented in the standards listed above