GLOBAL O-RING and SEAL
ALL-AROUND BETTER

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Compound HUSV90 Data Sheet

Hammer Union Seal – Viton 90 Durometer
Standard, Black

General Information: Hammer Union Seals are used in hammer union-style pipe connections to establish flow lines and prevent leakage. Global O-Ring and Seal offers Hammer Union Seals in Nitrile (also known as NBR, Buna, or Buna-N) for standard service, as well as Viton™ (also known as fluoroelastomer or FKM) for increased temperature and chemical resistance or HNBR for Sour Gas Service or Teflon (PTFE). In addition to the standard molded rubber seals, anti-extrusion rings can be reinforced in brass Hammer Union Seals or stainless-steel Hammer Union Seals.

Sizes: 2”, 3”, 4”

Tolerances: per ISO 3302-1 M2

Material: Viton™ 90 Durometer

Extrusion Ring: None

Temperature Range: -14.8°F (-26°C) to 482°F (250°C)

Performs Well In:

- Petroleum products
- Fuel or blend with methanol or ethanol
- Diesel or blend with biodiesel
- Mineral oil and grease
- Silicone oil and grease
- High vacuum
- Ozone, weather and very high temperature air
- Strong acid

Doesn’t Perform Well In:

- Ketones
- Low molecular weight organic acids (formic and acetic acids)
- Superheat steam
- Low molecular weight esters and ethers.
- Phosphate ester based hydraulic fluids - Skydrol(R)

Request A Quote

HUS-V90

TEST REPORT FOR HUS COMPOUND HUS-V90

MATERIAL: VITON 90 DUROMETER
EXTRUSION RING: NONE
COLOR: BLACK
ASTM D2000 M3HK910 A1-10 A1-11 B37 B38 EF31 EO78 EO88

SECTION OF SPEC.	PROPERTIES	REQUIREMENTS	RESULTS	ASTM TEST METHOD
	ORIGINAL PHYSICAL PROPERTIES			
	Hardness, Shore A	90±5	87	D2240-15
	Tensile Strength, psi (MPa)	1450(min)	1763(12.16)	D412-16
	Elongation, min, percent	100(min)	192	D412-16
	Modulus @ 100%, psi (Mpa)		1195(8.24)	D412-16
	Density,(Mg/m^3)		1.84	CNS 5341-96A
A1-10	**HEAT AGE**			D573-04
	70 hours at 250°C			
	Hardness Change, points	+10(max)	+3	
	Tensile Strength Change, percent	-25(max)	+5	
	Elongation Change, percent	-25(max)	-20	
	Weight Change, percent		-1.5	
A1-11	**HEAT AGE**			D573-04
	70 hours at 275°C			
	Hardness Change, points	+10(max)	+5	
	Tensile Strength Change, percent	-40(max)	-15	
	Elongation Change, percent	-20(max)	-18	
	Weight Change, percent		-3.8	
B37	**COMPRESSION SET**			D395-16B
	22 hours at 175°C, percent	30%(plied)(max)	17.1	
B38	**COMPRESSION SET**			D395-16B
	22 hours at 200°C, percent	50%(plied)(max)	25.3	
EF31	**ASTM Fuel C Resistance**			D471-16a
	70 hours at 23°C			
	Hardness Change, points	±5	-4	
	Tensile Change, max, percent	-25(max)	-16	
	Elongation Change, max, percent	-20(max)	-18	
	Volume Change, percent	0~+10	+3.3	
EO78	**ASTM No. 101 Oil**			D471-16A
	70 hours at 200°C			
	Hardness Change, points	-15~+5	-9	
	Tensile Change, max, percent	-40(max)	-7	
	Elongation Change, max, percent	-20(max)	-20	
	Volume Change, percent	0~+15	+7.3	
EO88	**Hatco 7700 Oil**			D471-16A
	70 hours at 200°C			
	Hardness Change, pts.	-15~+5	-14	
	Tensile Strength Change, %	-40(max)	-5	
	Elongation Change, %	-20(max)	-18	
	Volume Change, %	+25(max)	+13.1	