



KAF SEAL INC.

A universal seal eliminating need for multiple MOC

CAMLOCK COUPLING GASKET



ABOUT US

We at KAF SEAL INC offer sealing solutions for a sustainable future. We combine both our own success with environmental protection and through our investment in innovative new sealing solutions we enable our customers in a wide range of industries to meet the complex needs of society both now and in the future.

It is our focus on customer service and quality that has seen us grow year on year since est. 2004.

What makes us different:

Growth in industrial technology has always remained to be dependent upon local availability of consumables this not only brings limitation to technology migration but also keeps industries under-developed holding back efficiency attracting no potential demands keeping skillset poor. This was soon realized by KAF-SEALS asking to bring world leaders in sealing technology across the globe together by collaborating fostering a culture of innovation that springs from a deep understanding of our customers industries and their unique sealing challenges that introduces industry specific designs from exceptional food-grade gaskets to metal gasketing for Oil & Gas, Pharma, Semiconductor , Marine, Refrigeration, Power and Process Industry with all required certifications in demand. As such, we continually work to introduce products that are environmentally friendly while also meeting our customers sealing objectives. Therefore we stand for key values like responsibility, continuity, the spirit of innovation & flexibility in thought & action.

Our business: We develop practical solutions to address goals of our changing world

Why people like us: We always stick to offer standard MOC to our customers covering wide temperature & chemical range that eliminates the need to check material compatibility each time in case of multiple MOC's to choose from.

Core Values:

1. We pursue excellence in order to continually improve
2. We promote, embrace and manage change
3. We champion honesty and fairness
4. We are committed to protecting the environment



Camlock Coupling Gasket



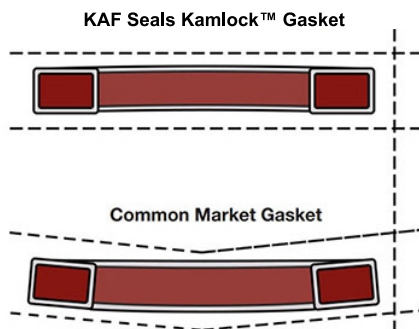
Product Description:

What are Encapsulated Kamlock™ Gaskets?

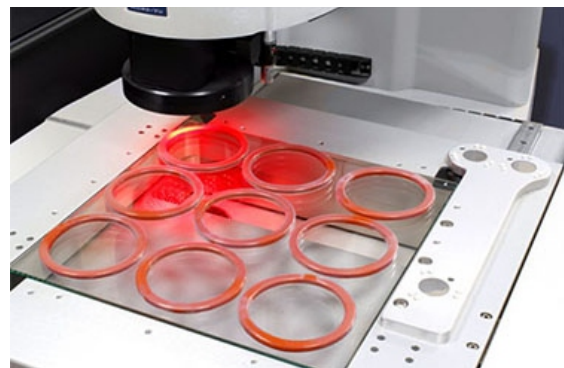
Encapsulated gaskets by KAF Seals for the universal sealing of cam and groove hose couplings. The rectangular cross-section inner core of silicone or Viton™ rubber is protected by an encapsulation of FEP, providing extreme chemical and high temperature resistance.

Benefits

- Exceptional resistance to aggressive chemicals and gas permeability
- Low coefficient of friction allowing reduced wear of equipment
- Adaptive sealing force of an elastomeric 'O'-Ring
- Maintain standard MOC eliminating need of multiple MOC's
- Resistant to compression set/cold flow issues of solid 'O'-Rings
- Withstanding severe CIP/SIP regimes
- Unsusceptible to corrosive surface
- 3-A Sanitary, USP Class VI ,FDA Regulation 21.CFR.177.1550, BSE/TSE , EU VO 1935/2004



Gasket Quality



Micro-VU Inspection

KAF Seals gaskets are produced to be the highest quality available in the market. We have eliminated common product issues found in the market, guaranteeing a consistent fit and reliable performance.

- **Minimal encapsulation-to-core gap** - reducing the potential for encapsulation damage
- **Superior gasket flatness** - ensuring even contact across the sealing surface
- **Smooth sealing surface** - free from warps and kinks to ensure no potential leak paths
- **Exceptional chemical resistance** - a cost-efficient replacement for FFKM seals for aggressive chemicals



Coupling Size		Gasket Dimensions (inches)			Gasket Dimensions (mm)		
Inches	mm	OD	ID	Height	OD	ID	Height
0.500	12.70	1.024 (±.020)	0.669 (±.020)	0.157 (±.006)	26.00 (±0.51)	17.00 (±0.51)	4.00 (±0.15)
0.750	19.00	1.375 (±.025)	0.875 (±.020)	0.218 (±.006)	35.00 (±0.63)	22.20 (±0.63)	5.54 (±0.15)
1.000	25.40	1.563 (±.025)	1.063 (±.025)	0.250 (±.006)	39.70 (±0.63)	27.00 (±0.63)	6.35 (±0.15)
1.250	31.70	1.938 (±.030)	1.359 (±.030)	0.250 (±.006)	49.20 (±0.76)	34.50 (±0.76)	6.35 (±0.15)
1.500	38.00	2.188 (±.035)	1.625 (±.035)	0.250 (±.006)	55.60 (±0.89)	41.30 (±0.89)	6.35 (±0.15)
2.000	50.80	2.625 (±.035)	2.000 (±.035)	0.250 (±.006)	66.70 (±0.89)	50.80 (±0.89)	6.35 (±0.15)
2.500	63.50	3.125 (±.035)	2.375 (±.035)	0.250 (±.006)	79.40 (±0.89)	60.30 (±0.89)	6.35 (±0.15)
3.000	76.20	3.719 (±.040)	3.000 (±.040)	0.250 (±.006)	94.50 (±1.02)	76.20 (±1.02)	6.35 (±0.15)
4.000	101.60	4.875 (±.040)	4.000 (±.040)	0.250 (±.006)	123.60 (±1.02)	101.60 (±1.02)	6.35 (±0.15)
5.000	127.00	5.906 (±.050)	4.875 (±.050)	0.250 (±.006)	150.00 (±1.27)	123.80 (±1.27)	6.35 (±0.15)
6.000	152.40	7.063 (±.060)	6.000 (±.060)	0.250 (±.006)	179.40 (±1.52)	152.40 (±1.52)	6.35 (±0.15)

Typical Applications

Gaskets provide a superior seal for any bulk liquid transfer in manufacturing, distribution or storage.

Chemical Processing:

- From trucks to storage
- From storage to process areas

Cosmetic Industry:

- Transferring perfumes and oils
- Blending and batching oils and greases for soap

Petroleum Industry:

- Deliveries to service stations
- Oil canning
- Blending grease and oil
- Mixing oil additives

Paints & Dyes:

- Mixing color pigments

Pharmaceuticals:

- Blending raw materials

Rubber & Plastics:

- Blending liquids and resins

Printing & Marking Equipment:

- Hose connectors

Bulk Liquid Transfer:

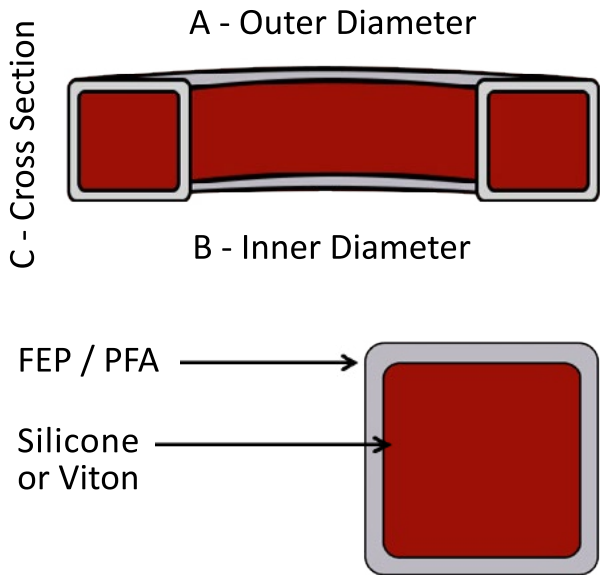
- Mining slurries, agricultural chemicals, brewing



Kamlock® Seals

Encapsulated Gaskets for KAMLOCK® Couplings are designed as universal, non-contaminating hose coupling seals. They eliminate the need to specify different elastomers for differing applications and eliminate coupling leakage through seal gasket failure, due to chemical attack or creep of solid Teflon® gasket seals. KAMLOCK® seals provide a superior seal for any bulk liquid transfer coupling in manufacturing, distribution or storage.

- Universal Gasket
Extreme chemical resistance and wide temperature range.
- Leak Free Service
Low compression set and elastomer core energiser avoids cold flow leakage of solid P.T.F.E.
- Non-Stick Surface
Low co-efficient of friction (0.1 to 0.2) allows easy installation and removal.
- Sanitary, Sterilizable and F.D.A. Compliant
Encapsulation eliminates contamination.



Rectangular FEP Gasket For Kamlock Couplings

Coupling Nominal Size		Dimensions					
		Inches			mm		
Inches	mm	A	B	C	A	B	C
0.500"	12.70	1.024"	0.669"	0.157"	26.0	17.0	4.0
0.750"	19.00	1.375"	0.875"	0.218"	35.0	22.2	5.54
1.000"	25.40	1.563"	1.063"	0.250"	39.7	27.0	6.35
1.250"	31.70	1.938"	1.359"	0.250"	49.2	34.5	6.35
1.500"	38.00	2.188"	1.625"	0.250"	55.6	41.3	6.35
2.000"	50.80	2.625"	2.000"	0.250"	66.7	50.8	6.35
2.500"	63.50	3.125"	2.375"	0.250"	79.4	60.3	6.35
3.000"	76.20	3.719"	3.000"	0.250"	94.5	76.2	6.35
4.000"	101.60	4.875"	4.000"	0.250"	123.6	101.6	6.35
6.000"	152.40	7.063"	6.000"	0.250"	179.4	152.4	6.35

F.E.P. Encapsulation Thickness Tolerances

A = 0.020" / 0.508mm

B = +/- 0.030" / 0.762mm

C = +/- 0.010" / 0.254mm



Chemical Resistance, Restricted Permeability and Absorption

Typical Chemicals with which FEP/PFA resins are compatible

The FEP / PFA encapsulation is the essential component of the Chem-Ring and it is resistant to practically all chemicals.

Within normal use temperatures, FEP/PFA resins are attacked by so few chemicals that it is more practical to describe the exceptions rather than to tabulate the chemicals with which they are compatible. Molten alkali metals, fluorine and several complex halogen compounds (chlorinetrifluoride) are incompatible with FEP/PFA resins.

In some instances, at or near the suggested service limit temperatures of FEP (204°C./400°F.) and PFA (260°C./500°F.), a few chemicals at high concentrations have been reported to be reactive.

Attack has been produced at such high temperatures by 80% NaOH or KOH, metal hydrides such as Borane (e.g. - B₂H₆), aluminium chloride, ammonia (NH₃), and certain amines (R - NH₂) and Imine (R = NH). Also, slow oxidative attack has been observed, by 70% nitric acid under pressure at 250°C./480°F.

Special testing is required when such extremes of reducing or oxidizing conditions are approached. Except for such chemicals under the conditions mentioned, it can be said that the Vulcan Chem-Ring R, is chemically inert.

Gas Permeability

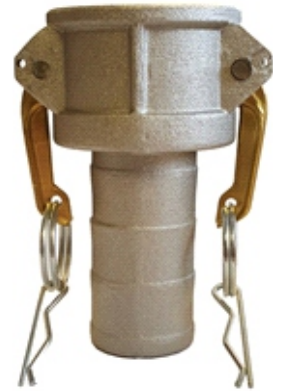
All thermoplastics have some permeability to gases primarily through intermolecular migration. In the case of our FEP or PFA encapsulation, any gas permeation is at a substantially lower rate than most other plastics. Whilst highly corrosive gases do not normally chemically successfully attack, the FEP / PFA encapsulation, they may eventually permeate through and damage the elastomer core, and hence affect the seal's mechanical properties. Thus in addition to chemical resistance, permeability effects may have to be considered in some aggressive gas sealing systems.

Abietic acid	Bromine	Diethyl carbonate
Acetic acid	N-Butyl amine	Dimethyl ether
Acetic anhydride	Butyl acetate	Dimethyl formamide
Acetone	Butyl methacrylate	Di-isobutyl formamide
Acetophenone	Calcium chloride	Dimethylformamide
Acrylic anhydride	Carbon Disulfide	Dimethyl hydrazine
Alkyl methacrylate	Cetane	
Ammonia, liquid	Chlorine	Dioxane
Ammonium chloride	Chloroacetic Acid	Ethyl acetate
Aniline	Chloroform	Ethyl alcohol
Aqua Regia	Chlorosulfonic acid	Ethyl ether
Benzoyl chloride	Chromic acid	Ethyl hexanoate
Benzyl alcohol	Cyclohexane	Ethyl bromide
Benzoyl Peroxide	Cyclo hexanone	Ethylene glycol
Borax	Dibutyl Phthalate	Ferric Chloride
Boric acid	Dibutyl sebacate	Freons
Ferric phosphate	2-nitro-butanol	Potassium permanganate
Fluoronitrobenzene	Nitromethane	Pyridine
Formaldehyde	Nitrogen tetroxide	Soap and detergents
Formic acid	2-nitro-a2-methyl Proponal	Sodium Fluoride
Furane	N-Octadecyl alcohol	Sodium hydroxide<80%
Gasoline	Diesel	Sodium hypochlorite
Hexachloroethane	Nitric acid	Sodium peroxide
Hexane	Nitrobenzene	Solvents, aliphatic ²
Hydrazine	Oils, animal and vegetable	and aromatic ²
Hydrochloric acid	Oleum	Stannous Chloride
Hydrochloric acid	Ozone	Sulphur
Hydrochloric acid	concentrate Perchlorethylene	Sulphuric acid
Hydrogen peroxide	Pentachloro-Benzamide	Tetrabromoethylene
Isopropyl alcohol	Perfluoroxylene	Tetrachloroacetic acid
Isocyanates	Phenol	Trichloroacetic acid
Lead compounds	Phosphoric acid	Trichlorrthylene
Magnesium chloride	Phosphorus	Tricresyl phosphate
Mercury	Pentachloride	Triethanolamine
Methyl ethyl Ketone	Phthalic acid	Turpentine
Methacrylic acid	Pinene	Unleaded fuel
Methanol	Piperidine	Vinyl methacrylate
Methyl methacrylate	Polyacrylonitrile	Water
Napthalene	Potassium acetate	Xylene
Naphthols	Potassium hydroxide<50%	Zinc chloride

Size	1/2",3/4",1",1.25",1.5",2",2.5",3",4",5",6"
Thread Type	BSPT
Connection	Male Adaptor by Male Thread
Material	Stainless Steel 316/304
Pressure	20Bar / 290PSI
Series Part	Part F



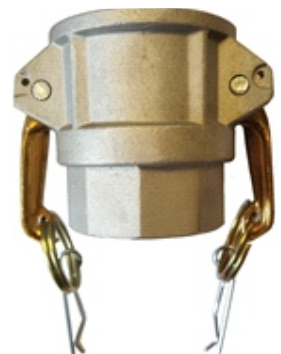
Size	1/2",3/4",1",1.25",1.5",2",2.5",3",4",5",6"
Connection	Female Coupler by Hose Tail
Material	Stainless Steel 316/304
Pressure	20Bar / 290 PSI
Seal Type	FEP Encapsulated Silicone
Series Part	Part C



Size	1/2",3/4",1",1.25",1.5",2",2.5",3",4",5",6"
Thread Type	BSPP
Connection	Male Adaptor by Female Thread
Material	Stainless Steel 316/304
Pressure	20Bar / 290PSI
Series Part	Part A



Size	1/2",3/4",1",1.25",1.5",2",2.5",3",4",5",6"
Connection	Female Coupler by Female Thread
Material	Stainless Steel 316/304
Pressure	20Bar / 290 PSI
Seal Type	FEP Encapsulated Silicone
Series Part	Part D



Kamlock / Quick Locks Seals



Excellent Chemical Resistance - FEP is chemically inert to all industrial inks, solvents and chemicals, even at elevated temperatures and pressures

Resiliency - Elastomeric cores provide an assured tight seal

Wide Temperature Range - Continuous service temperatures from - 75°F (-60°C) to +400°F (+205°C) for FEP & silicone.

Low Coefficient of Friction - Lubricious surface of FEP for easier gasket insertion

Nonstick Surface - Almost all substances release easily so cleanup is easier

Universal Seal - Handles practically any fluid. Eliminates matching the myriad elastomeric formulations with a specific requirement

Sanitary - Eliminates contamination associated with elastomeric gaskets.

Speciality in :

Ink Trays

1. Ink trays available in all sizes
2. Avoids fire & frictions with special inserts of imported Teflon bush / cover
3. Splash Guard set

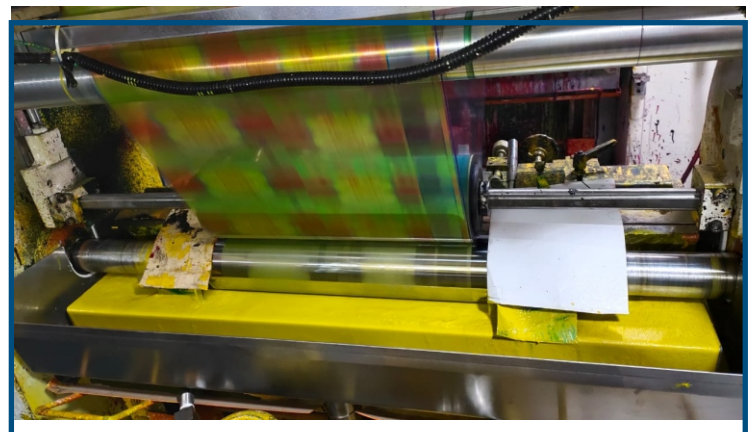
Ink Circulation system

1. Ink Pump
2. Flame proof motor
3. Ink filter
4. Circular Ink Tank (capacity up to 60Ltr)
5. All Mechanical fittings

Ink Trolley

1. Height adjustable
2. Movable

Viscosity System Controls



Applications :



Bulk Storage Distribution



Rail Tanker



Bulk Storage Distribution



KAF SEAL INC.

Networking Distribution

1403, Kaavya Beachwood Tower,
Next to Sai Siddhi, Sector-8,
Charkop, Kandivali West,
Mumbai : 400067, Maharashtra, India.

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