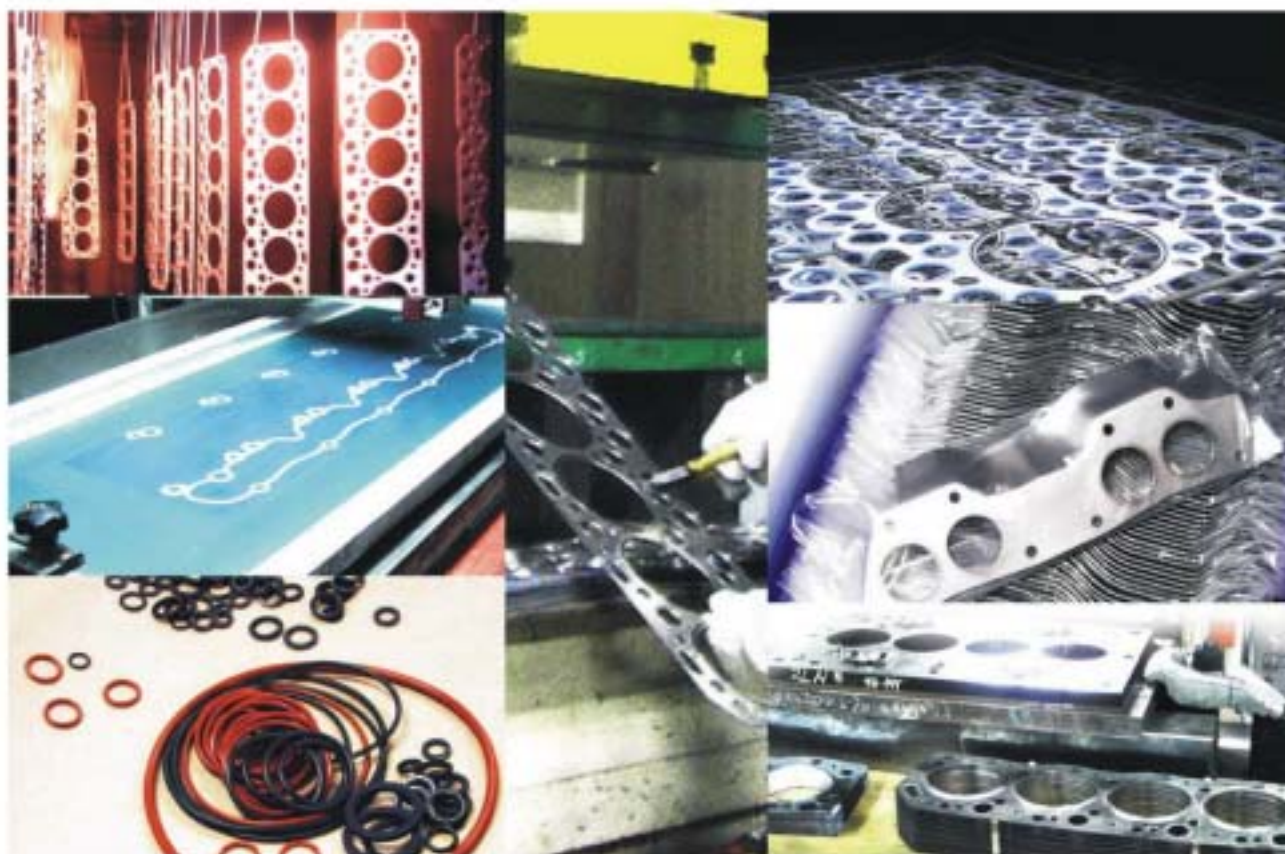


Sourcing & Service

KOMATSU

Gasket set & Seals



Cylinder Head Gaskets

Cylinder head gaskets, located between the engine block and the cylinder head, prevent leaks of combustion gas, engine coolant and engine lubricating oil. Federal-Mogul's design expertise enables us to provide solutions for fluid-flow management, head motion and emissions reduction. Head gasket coatings improve microsealing, prevent sticking and reduce friction to provide a robust seal.



1.Multi-Layer Steel Gaskets

Depending on the functions that cylinder-head gaskets must perform, they are fitted with appropriate functional elements. These elements represent the freedom of design that defines MLS head gaskets.

Product Features

- a. One to five layers
- b. Elastomer coatings flow to seal rougher surface roughness
- c. Embossment shapes are designed to improve durability
- d. Stopper layer can be designed with topography to optimize load balance

Product Benefits

- a. Improved durability
- b. Reduced oil consumption
- c. Improved engine performance
- d. Reduced bore distortion



2.Graphite Cylinder-Head Gaskets

Manufactures cylinder-head gaskets for the heavy duty and off-highway market segments utilizing a proprietary graphite composite material. This dynamic engine component is placed between the engine's cylinder head and block where the sealing of combustion pressures and fluids is critical.

Features

This exclusive material is comprised of layers of a graphite-based composite with a solid steel inner layer providing enhanced radial strength, along with fire-ring assemblies for combustion sealing. Molded elastomeric inserts can also be integrated into the system for enhanced sealing of coolants and oils.

Benefits:

Combustion seal conformability



Ability to accept liner-to-liner variance
Conformance to less-than-perfect hardware surface finishes
Very low thermal creep
Ability to seal fluids at low stress levels

3.AFM Gaskets (Non-Asbestos)

Features

The soft asbestos-free material (AFM) contains aramid fibers, inorganic fillers, and synthetic binders. Specific material properties are the result of material composition and varying process parameters in manufacturing. All AFM materials can be provided with an anti-stick layer on both sides that prevents adhesion to components. AFM materials serve in a wide variety of automotive and industrial applications.



Exhaust System Gaskets

We offer a range of technologies to seal the entire exhaust system. Our technology portfolio includes high-temperature alloys, multi-layer steel (MLS), single-layer steel (SLS), graphite-coated metal, spiral-wound gaskets (SWG), graphite perforated core and fiber composite. Federal-Mogul also offers hybrid designs that mate graphite with MLS for demanding applications.

Valve Cover Gaskets

We design and produce valve cover gaskets for the automotive and heavy-duty industries. Our innovative valve cover gaskets seal oil inside the valve cover to prevent leaks. Valve cover gasket technologies include press-in-place (PIP), edge-molded, encapsulated and liquid elastomer molded (LEM).

Manifold Intake Gaskets

We offer a complete range of intake manifold gasket solutions to meet your application needs. Our gasket technologies include press-in-place (PIP), liquid elastomer molded (LEM), edge-molded, rubber-coated metal (RCM), graphite and fiber composite.

Oil Pan Gaskets

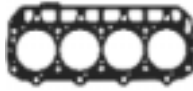
Our oil pan gaskets are high-quality, highly diversified products for light and commercial applications. Oil pan gasket technologies include edge-molded, encapsulated, liquid elastomer molded (LEM), press-in-place (PIP) and fiber composite.

Front Cover Gaskets

front cover gasket technologies include edge-molded, liquid elastomer molded (LEM), press-in-place (PIP), rubber-coated metal (RCM) and fiber composite. Our material and design expertise enables us to deliver the right solution to meet your application.

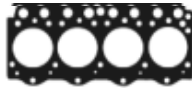
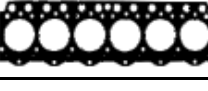
Gasket & Full Set for KOMATSU



Engine	Description	Full Set	Head Set	Cylinder Head Gasket
2D92		400010	410010	42001
		6141-K1-8000	6141-K1-8000	6141-12-1810
		+		Non-Asbestos
		6141-K2-8000		
4D92		400050	410050	42005
		6141-K1-8000	6141-K1-8000	6141-11-1813
		+		Non-Asbestos
		6141-K2-8000		
2D94		400020	410020	42002
		6142-K1-1200	6142-K1-1200	6142-12-1810
		+		Non-Asbestos
		6142-K2-1200		
3D94		400030	410030	42003
		6143-K1-8000	6143-K1-8000	6143-11-1810
		+		Non-Asbestos
		6143-K2-8000		
4D94		400060	410060	42006
		6144-K1-0501	6144-K1-0501	6144-11-1810, 6143-11-1811
		+		
		6144-K2-0501		
4D94E		400260	410260	42026
		YM729901-62601		YM129901-01350
				Non-Asbestos
				
3D95		400040	410040	42004
		6201-K1-2000	6201-K1-2000	6201-11-1810
		+		Graphite
		6201-K2-2000		Φ 96.0
4D95		400070	410070	42007
		6204-K1-2100	6204-K1-2100	6204-11-1810, 6204-11-1830
		+		Graphite
		6204-K2-2100		Φ 96.5
4D95		400071	410071	42007
		6202-K1-3101	6202-K1-3101	6204-11-1810, 6204-11-1830
		+		Graphite
		6202-K2-3100		Φ 96.5

Gasket & Full Set for KOMATSU



Engine	Description	Full Set	Head Set	Cylinder Head Gasket
4D95		400072	410072	42007 6204-11-1810, 6204-11-1830 Graphite Φ 96.5 
4D95		400072	4L0072 6202-K2-3400	42007 6204-11-1810, 6204-11-1830 Graphite Φ 96.5 
4D95		400080 6205-K1-2100 + 6205-K2-2100	410080 6205-K1-2100	42008 6204-11-1812 Steel Φ 96.5 
4D95L		400220 6202-K1-1000 + 6202-K2-1100	410220 6202-K1-1000	42022 6202-10-1830 Graphite 
6D95		400090 6207-K1-2100 + 6207-K2-2100	410090 6207-K1-2100	42009 6205-12-1812, 6206-11-1821 Steel Φ 96.5 
6D95		400100 6206-K1-2100 + 6206-K2-2100	410100 6206-K1-2100	42010 6206-11-1810 Graphite Φ 96.5 
6D95		400110 6207-K1-2002/2004 + 6207-K2-2002/2004	410110 6207-K1-2002/2004	42011 6206-11-1830 Graphite 
SA6D95L-1 S6D95L-1 SA6D95L-1	Application: PC200-6/LC-6/6Z, LC-6Z, PC-210-6/LC-6, PC220- 6/6Z/LC-6/LC-6Z, PC230- 6/LC-6, PC250LC-6	400111 6207-K1-9901 + 6207-K2-9901	410111 6207-K1-9901	42011 6206-11-1830 Graphite 
6206-11-8810 Valve Cover, 6207-11-5810 Manifold Exhaust, 6136-11-4850 Manifold Intake, 1816593 Oil Pan, 6204-21-3510 Crankshaft Seal Front, 6141-21-1332 Crankshaft Seal Rear				
6D102		400250 6735-K1-1110 + 6735-K2-1110	410250 6735-K1-1110	42025 6735-11-1812 Steel 

Gasket & Full Set for KOMATSU



Engine	Description	Full Set	Head Set	Cylinder Head Gasket
4D105-1		400120	410120	42012
		6130-K1-2001	6130-K1-2001	6131-11-1811
		+		Non-Asbestos
		6130-K2-2001		Φ 113.0
4D105-3		400121	410121	42012
		6131-K1-4000	6131-K1-4000	6131-11-1811
		+		Non-Asbestos
		6131-K2-4000		Φ 113.0
4D105-3C	Application: D31A-16,D31P-16/16A, D31PL-16/PLL-16, D31Q-16/S16	400122	410122	42012
		6131-K1-9901	6131-K1-9901	6131-11-1811
		+		Non-Asbestos
		6131-K2-9901		Φ 113.0
6130-11-7821Valve Cover,6132-11-5810 Manifold Exhaust,07000-72070 Manifold Intake,6130-21-5812 Oil Pan,6130-22-3290 Crankshaft Seal Front,6130-21-4231 Crankshaft Seal Rear				
4D105-5		400130	410130	42013
		6134-K1-5000	6134-K1-5000	6134-11-1810
		+		Non-Asbestos
		6134-K2-5000		Φ 113.0
6D105		400140	410140	42014
		6137-K1-3012	6137-K1-3012	6137-11-1810, 6136-11-1821
		+		Non-Asbestos
		6137-K2-3005		Φ113.0
S6D105-1	Application: PC300-3/LC-3,PC210-3/LC3,PC220-2/LC-2,PC220-3/LC-3,PC240-3K/LL-3K/NLC-3K,PF55L-1,PW210-1 ,GD505A-2	400141	410141	42014
		6137-K1-9901	6137-K1-9901	6137-11-1810, 6136-11-1821
		+		Non-Asbestos
		6137-K2-9901		ψ 113.0
6136-11-8814Valve Cover,6135-11-5810 Manifold Exhaust,6136-11-4850 Manifold Intake,6136-21-5821 Oil Pan,6136-22-3510 Crankshaft Seal Front,6130-21-4231 Crankshaft Seal Rear				
6D108		400150	410150	42015
		6221-K1-3000	6221-K1-3000	6221-17-1811
		+		Steel
		6221-K2-3000		
6D108		400151	410151	42015
		6222-K1-3001	6222-K1-3001	6221-17-1811
		+		Steel
		6222-K2-3001		

Gasket & Full Set for KOMATSU



Engine	Description	Full Set	Head Set	Cylinder Head Gasket
SA6D108-1	Application: PC300-5/LC-5/LC-5A/5K/LC-5K/NLC-5K/5T/LC-5T,PC360LC-5,WA420-3/3X	400152 6222-K1-9900 + 6222-K2-9900	410152 6222-K1-9900	42015 6221-17-1811 Steel 
6136-11-8814 Valve Cover, 62221-11-5813 Manifold Exhaust, 6221-11-4810 Manifold Intake, 6136-21-5821 Oil Pan, 6136-22-3510 Crankshaft Seal Front, 6221-21-4522 Crankshaft Seal Rear				
6D110		400160 6138-K1-0102 + 6138-K2-0102	410160 6138-K1-0102	42016 6138-19-1811 
S6D110-1 SA6D110-1	Application: PC280LC-3, GD615A-1, WA350-1/1B/1M SA6D110-1: D66S-1, WA380-1, WA400-1/1A/1J, WA420-1/1R/1W	400161 6138-K1-9901 + 6138-K2-9901	410161 6138-K1-9901	42016 6138-19-1811 Steel 
6136-11-8814 Valve Cover, 6135-11-5810 Manifold Exhaust, 6136-11-4860 Manifold Intake, 6136-21-5821 Oil Pan, 6136-22-3510 Crankshaft Seal Front, 6130-21-4231 Crankshaft Seal Rear				
6D110		400162 6136-K1-9901 + 6136-K2-9901	410162 6136-K1-9901	42016 6138-19-1811 Steel 
6D110		400163 6138-K1-6004 + 6138-K2-1303	.	42016 6138-19-1811 Steel 
4D120		400230 6110-K1-0001 + 6110-K2-0005	410230 6110-K1-0001	42023 6110-13-1811 2Steel+1Non-asbestos 
4D120		400231 6110-K1-9901 + 6110-K2-9901	410231 6110-K1-9901	42023 6110-13-1811 2Steel+1Non-asbestos 
6D125		400170 6151-K1-3000 + 6151-K2-3000	410170 6151-K1-3000	42017 6150-17-1812 Steel 6pcs/SET 
6D125		400171 6151-K1-5000 + 6151-K2-5000	410171 6151-K1-5000	42017 6150-17-1812 Steel 6pcs/SET 

Gasket & Full Set for KOMATSU



Engine	Description	Full Set	Head Set	Cylinder Head Gasket
S6D125-1	Application: D83E-1/D-1,D85A-21/A21- B,PC300-3/LC-3,PC360LC- 3	400172 6151-K1-9901 6151-K2-9901	410172 6151-K1-9901	42017 6150-17-1812 Steel 6pcs/SET
6150-11-8810 Valve Cover, 6150-11-5810 Manifold Exhaust, 6150-13-4810 Manifold Intake, 6150-21-5812 Oil Pan, 6150-21-3230 Crankshaft Seal Front, 6151-21-4161 Crankshaft Seal Rear				
SA6D125E-2	Application: D87E-2,PC400HD-6/LC- 6,PC400HD-6LK/LC- 6LK,WA450-3,WA470-3H	400180 6155-K1-9900 + 6155-K2-9900	410180 6155-K1-9900	42018 6151-17-1853, 6151- Steel 6pcs/SET
6150-11-8810 Valve Cover, 6150-11-5810 Manifold Exhaust, 6150-13-4810 Manifold Intake, 6150-21-5812 Oil Pan, 6150-21-3230 Crankshaft Seal Front, 6151-21-4161 Crankshaft Seal Rear				
4D130		400240 6114-K1-2101 + 6114-K2-2003	410240 6114-K1-2101	42024 6114-11-1811 2Steel+1Non-asbestos
4D130-1 S4D130-1	Application: D50A-16/F-16/S-16/P- 16,D53A-16/P-16/S-16/S- 17,D57S-1,GD500R-1	400241 6114-K1-9901 6114-K2-9901	410241 6114-K1-9901	42024 6114-11-1811 2Steel+1Non-asbestos
6110-11-8811 Valve Cover, 6114-11-5820 Manifold Exhaust, 6110-11-4811 Manifold Intake, 6110-23-5812 Oil Pan, 07012-00075 Crankshaft Seal Front, 6610-21-1321 Crankshaft Seal Rear				
6D140		400190 6211-K1-0100 + 6211-K2-0102	410190 6211-K1-0100	42019 6210-17-1813 Steel 6pcs/SET
SA6D140-1	Application: D155A-3/AX-3/A-5/AX- 5,D355C-3-A/DA,PC750- 6/LC-6/SE-6/SE- 6K,PC750LC-6K-01/SE- 6K/SE-6K-01,PC1600SP-1	400191 6212-K1-9901 + 6212-K2-9901	410191 6212-K1-9901	42019 6210-17-1813 Steel 6pcs/SET
6210-11-8820 Valve Cover, 6210-11-5881 Manifold Exhaust, 6210-11-4811 Manifold Intake, 6210-21-5820 Oil Pan, 6711-29-3521/6210-21-3170 Crankshaft Seal Front, 6151-21-4160/6151-21-4150 Crankshaft Seal Rear				
6D155		400200 6128-K1-0024 + 6128-K2-1025/6128-K2-1037	410200 6128-K1-0024	42020 6127-11-1817, 6127-11-1087 Steel 3pcs/SET

Gasket & Full Set for KOMATSU



Engine	Description	Full Set	Head Set	Cylinder Head Gasket
S6D155-4 SA6D155-4	Application: D150A-1,D155A-1/A-2/S- 1/W-1,D355A-3 SA6D155-4:D355A-3/A-5	400201 6128-K1-9901 + 6128-K2-9901	410201 6128-K1-9901	42020 6127-11-1817/1087 Steel 3pcs/SET 
6127-11-8812 Valve Cover,6127-11-5810 Manifold Exhaust,6127-11-4822 Manifold Intake,6127-21-5851 Oil Pan,6127-21-3510 Crankshaft Seal Front,6128-21-4230 Crankshaft Seal Rear				
6D170		400210 6162-K1-5000 + 6162-K2-5000	410210 6162-K2-5000	42021 6162-13-1812 Steel 6pcs/SET 
S6D170-1 SA6D107E-2 SA6D170-1 SAA6D170E-2A	Application: D275A-2,WA600- 1/L,D375A-3,PC1000-1/SP- 6,PC1100-6,WA700- 1L/3/3D/3L,D375A- 1,HD465-5/3,HD605-5	400211 6162-K1-9901 + 6162-K2-9901	410211 6162-K1-9901	42021 6162-13-1812 Steel 6pcs/SET 
6162-13-8812 Valve Cover,6162-13-5810 Manifold Exhaust,6162-13-4812 Manifold Intake,1816593 Oil Pan,6162-23-3510,6215-29-4320(M/Sleeve) Crankshaft Seal Front,6162-23-4231(Dry),6162-23-4251(Wet),6162-29-4300(W/Sleeve)Crankshaft Seal Rear				
NT855		400280 6711-K1-0104 + 6711-K2-0104	410280 6711-K1-0104	42028 6710-11-1081 Steel 3pcs/SET 
NT855		400281 6711-K1-0103 + 6711-K2-0101	410281 6711-K1-0103	42028 6710-11-1081 Steel 3pcs/SET 
NH220		400290 6610-K1-1600 + 6610-K2-1600	410290 6610-K1-1600	42029 6610-11-1081 Steel 3pcs/SET 
NH220		400291 6610-K1-3104 + 6610-K2-7005	410291 6610-K1-3104	42029 6610-11-1081 Steel 3pcs/SET 
NH220		400292 6610-K1-9901 + 6610-K2-9901	410292 6610-K1-9901	42029 6610-11-1081 Steel 3pcs/SET 



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