HFM - 011467

ASBESTOS USE IN FRICTION MATERIALS

Friction Materials	Design Responsibility	Basic Component Part Number(s)	Specification(s)	Supplier(s)	Alternative - Status
Primary lining rear drum brakes.	Chassis	2200			. NO substitute for drum brakes.
Secondary lining rear drum brakes.	Chassis	2200	ES-Part Number (numerous)	Bendix Kelsey Hayes Wagner Electric Raybestos Thermoid Thermoid AMK	. Bendix and AMK state they will submit alternates in the 4th quarter 1979 for evaluation. . NO substitute for semi-metallic disc brake lining. Bendix claims substitute. . NO plans as yet to phase out asbestos for a brakes.
Outer disc front brakes	Chassis	2200			
Inner disc front brakes.	Chassis	2200			
Converter runner.	Trans. & Axle	7935 7937	ESW-M3D77-A	Chicago Molded Diecasting Plastic Moldings Hunter-Torrox (Fab) Wagner (Fab)	. Network to evaluate for performance . CO(1,CO) Inc. of Hunter-Durez 2 of 39 stock piled for Ford phase out.
Thrust washer auto. trans.	Trans. & Axle	7916 7937	ESW-M3D81-A ESW-M3D77-A ESW-M3D108-A	Hunter Torrox (Canadian) Union Carbide	. Ex Highly-A replaces ESW-M3D81-A supplied by Morplas. . Hunter-Torrox supply free samples.
Gear Assembly	Trans. & Axle	7A176 7D775 7D776 7A162	Part Number (numerous)	Spring Hammer Kelsey-Hayes Raybestos	. Active program to find substitutes created by Task Force . [illegible] 1.0 [illegible] disc assy. contains non asbestos substitutes . Life span time of transmission, substitute non asbestos substitutes. . Probably will be safe to select a fuel. . All will be a free non-asbestos substitutes. . Raybestos policy to be out of asbestos by 1982 will push efforts for non-asbestos substitution.
Plate Assembly (trans.)	Trans. & Axle	7F312 7F311 7D776 7F313 7F319		Spring Hammer Raybestos	
Clutch disc assy. friction facings.	Trans. & Axle	7550 7549		Borg & Beck Luk Alco Thermoid Porter (Fab) Raybestos (Fab)	
Plate Assembly (axle)	Trans. & Axle	4A71 4A325		Spring Hammer Raybestos	

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SCF-FORD-1747

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ASBESTOS USE IN GASKETS & INSULATORS

Gasket Materials	Design Responsibility	Basic Component Part Number(s)	Specification(s)	Supplier(s)	Alternative - Status
Cylinder head	Engine	6051	ESE-M8072-A ESE-M8073-A ESE-M8G108-A	Victor Detroit Raybestos (Fab)	None - no known R & D
Exhaust manifold	Engine Chassis	9448 9451	ESE-M8G149-A	Victor	None - no known R & D
Intake manifold Manifold cover Thermostat choke	Engine	9437 9C448 9A744 9993 9461 9F436 9U437 9U438	ESF-M8055-A ESE-M8052-A ESA-M8094-A ESE-M8124-A ESE-M8G144-A1,A2	Victor Detroit Nicolet Crotty McCord Felt Products Latex Fiber (Fab) Raybestos (Fab) Armstrong (Fab) Rogers Corp. (Fab)	None - Rogers Corp. Nobestos available for testing to replace Armstrong AN-893; cost penalty 25-50%. - Armstrong Cork Thermotork available for testing on part for part substitution only; cost penalty 200-300%.
Carburetor to manifold	Engine	9447	ESE-M8063-A ESE-M8G105-B ESE-M8G137-A ESE-M8G143-A ESE-M8G150-A	Nicolet Wolverine Crotty Detroit F. D. Farnum Raybestos (Fab)	None - Rogers Corp. Nobestos - Armstrong Cork Thermotork
Compressor to block	Engine	2946		Victor	
Oil pan Oil pump	Engine		ESE-M901-A	Detroit Victor Nicolet	
Front cover	Engine	6020	ESF-M8055-A	Crotty Armstrong (Fab) Latex Fiber (Fab)	
Water pump and cover Water outlet connection	Engine	8507 8513 8255	ESW-M80109-A	Crotty Wolverine Rogers Corp. (Fab)	

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Gasket Materials	Design Responsibility	Basic Component Part Number(s)	Specification(s)	Supplier(s)	Alternative - Status
Fuel pump		9417		Crotty Quality	
Carburetor choke housing cover	Engine		ESF-M8065-A	Victor Volverine Federal-Mogul	
Carburetor power valve	Engine		ESF-M8055-A	Armstrong (Fab) Latex Fiber (Fab)	
Seal for rear main cap	Engine		ESE-M8059-A	Raybestos (Fab)	
EGR valve Various high temp.	Engine		ESE-M80106-A ESE-M80106-B ESE-M80150-A	Raybestos (Fab) Nicolet	
Converter seal	Engine		ESE-M80138-A1, A2, B1, B2	Raybestos (Fab) RH Industrial	
Seat belt anchor insulator	BEPE	5460122 6260122 6660122	ESB-M80145-A	F. D. Farnum Banks Bros.	
Sealer for studs, plugs, joints, etc.	Engine Chassis	8005	ESE-M40114-A ESE-M40115-A ESE-M40116-A	P.O.B. Mfg. Permatex Pierce & Stevens	
Insulator between floor pan and Exhaust system	BEPE		ESB-M2E57-A ESB-M2E57-B	G.A.F. Corp. Panacon Phillip Carey	
Axle housing cover	Trans. & Axle		ESV-M80109-B	Crotty Volverine Rogers Corporation (Fab)	
V/Vpr motor seal	EED	170430	ESV-M80109-B	Rogers Corporation (Fab) Volverine	
Heat shield exhaust system	Chassis		ESA-M8G147-A	Garlock	
Brake vacuum pump mount	Chassis	20335	ESE-M801-A	Detroit Victor Nicolet	
Compressor air brake		2946			

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Gasket Materials	Design Responsibility	Basic Component Part Number(s)	Specification(s)	Supplier(s)	Alternative-Status
Oil filter by-pass Vlv nut V/Vpr gear cur	Engine	6659 17A529	ESE-M201-A	Detroit Victor Nicolet	
Vater temp. SV Electrical control	Engine	12914 12A696	ESE-M8055-A	Crotty Armstrong (Fab) Latex Fiber (Fab)	
Oil fill housing to pan	Engine	6753	ESE-M0062-A	Crotty Armstrong (Fab) Latex Fiber (Fab)	
Lower arm ball joint A/C compressor head	Engine CCD	3A472 19D871	ESE-M8065-A ESE-M80109-B ESE-M8065-A	Federal Mogul Victor Volverine Crotty	
Crankshaft rear oil	Engine	6701	ESE-M0087-A	Copeland Gibson	
Resonator Assembly	Chassis	52266	ESE-M80106-A ESE-M80106-B ESA-M80140-A	Raybestos Nicolet	
Window Regulator Yoke	EED	144427	ESF-M80126-A	Armstrong (Fab) F.D. Farnum	
General purpose	Engine	M80136	ESE-M8013[illegible]-A	Latex Fiber	
Parking brake insulator	Chassis	28608	ESA-M80140-A	Raybestos	
Starter motor brush holder	EED	11062	ESF-M3L56-A	Morplex	Non-Asbestos substitute being purchased under a deviation on ESF-M3L56-A

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ASBESTOS USE IN ADHESIVES, SEALERS AND DEADENERS

Materials	Design Responsibility	Specifications	Supplier(s)	Alternative -Status
Adhesives	Engine	ESE-M2G51-A	3M	TBD
	BEPE	ESB-M2G58-C	Protective Treatment	
	BEPE	ESB-M2G171-AB	Protective Treatment	
Sealers	BEPE	ESB-M4G1-B	Protective Treatment	TBD
	BEPE	ESB-M4G31-A	Inmont, Tremco	
	BEPE	ESB-M4G32-A	Chemical Sealing	
	BEPE	ESB-M4G40-A	Allied, Mortell	
	BEPE	ESB-M4G58-B	Mortell	
	BEPE	ESB-M4G101-B	Tuff-Koto	
	BEPE	ESB-M4G108-A	Inmont	
	BEPE	ESB-M4G109-A	Mortell	
	BEPE	ESB-M4G110-A	Inmont	
	Engine	ESE-M4G114-A	POB Sealants	
	Engine	ESE-M4G115-A	POB Sealants	
	Engine	ESE-M4G116-A	POB Sealants	
	BEPE	ESB-M4G126-B	Chemical Sealing	
	BEPE	ESB-M4G137-A,B	Mortell	
	BEPE	ESB-M4G139-B	Protective Treatment	
	BEPE	ESB-M4G141-A	Allied, Mortell	
	BEPE	ESB-M4G145-C	Union City	
	BEPE	ESB-M4G147-B	Protective Treatment	
	BEPE	ESB-M4G161-C	Union City	
	BEPE	ESB-M4G162-A	Protective Treatment	
	BEPE	ESB-M4G172-A	Tuff-Kote	
	BEPE	ESB-M4G174-A	Protective Treatment	
	BEPE	ESB-M4G177-B	Protective Treatment	
	BEPE	ESB-M4G197-A	Protective Treatment	
	BEPE	ESB-M4G198-A	Protective Treatment	
	BEPE	ESB-M4G198-C	Union City	
Deadeners	BEPE	ESB-M5G8-A	Tuff-Kote	TBD
	BEPE	ESB-M5G22-A	Mortell	
	BEPE	ESB-M4G25-A	Mortell	

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