

ASBESTOS SUPPLIER POSITIONS-COMPLIANCE TO STANDARDS

011441

		<u>a/</u> <u>ES</u>	<u>b/</u> <u>NO</u>	<u>c/</u> <u>YES</u>	
KELSEY-HAYES	Brake Pads Linings & Drums				.Bonding instead of riveting .Eliminate Grinding-Molded approach being considered .Industrial Hygiene Measures .No immediate plans for automation .\$300,000 to comply plus \$110,000 annually
THIOKOL	Front Disc Pads Rear Disc Pads	YES	NO	YES	.Process change from compression to injection molding-\$1.2 million investment-would require requalification .Non-asbestos substitute presently available-one year lead time for vehicle testing required
RAYBESTOS	Clutch Facings	YES	NO	NO	.Industrial Hygiene measures to approach 1 fiber/cc .Alternative Raw Materials being considered-glass, mineral wool, combination of fiber .All R&D focused on non-asbestos products
ALMA	Clutch disc ass'y friction facings	YES	NO	YES	.All personnel wearing head hood filters 100% of the time
GENERAL INDUSTRIES	Washers	NO	NO	NO	.Will cease operations if forced to accept standards
DICKTEN and MASCH	Reactor	YES	NO	NO	.Will stop manufacture of asbestos products if forced to accept standard
H. K. PORTER THERMOID DIV.	Clutch Disc Shoe Lining Ass'y-Front and Rear	YES	NO	YES	.Fall 75 presentation on non-asbestos clutch facings to Ford-negative response-cost equivalent .Ability to coat facings to reduce fiber/cc level at no extra cost .Standard of .1 will prohibit asbestos usage .Brake substitutes increase weight and cost-one year lead time
BENDIX	Shoe + Lining	YES	NO	YES	.1.5 million to meet 1 Fiber/cc limit .5.5 million and 1-3 yrs to meet .5 fiber limit .Impossible to meet .1 level .Semi-metallic disc brakes asbestos-free backing to be completed by fall cost increment 1.2-1.6 x weight increment 1.8 x .Fiberglass linings on drum-good in lab, not so good on road .Critical issue-no product for drum brakes-1980-81 model year projection .Wet sanding & grinding could be instituted
ARVIN	Muffler Wrap Catalytic Converter Seal	YES	NO	YES	.Compliance to .5 fiber/cc level thru elimination of asbestos in the muffler wrap assembly .Planned change to fiberglass by 1978 .No present alternate for Converter Seal
JOHNS-MANVILLE	Raw Material Asbestos Fiber	NO	NO	NO	.In almost all operations 5 fiber/cc .By January 1979 2 Fiber/cc in all but 30 stations .Guidelines in effect in Quebec not as severe as U.S. .Studies indicate 2 fiber/cc to be a safe level

PRODUCED BY FORD

a/ compliance to present 2 fiber/cc std.
b/ present compliance to proposed .5 fiber/cc std.
c/ asbestos-free products

VEHICLE MATERIALS ENGINEERING
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