PLAINTIFF'S EXHIBIT
UC-1044

TABLE 2

Class Y (formerly O)	up to 90°C	Unimpregnated paper, cotton or silk; urea formaldehyde; aniline formaldehyde; vulcanised natural rubber; various thermoplastics limited by softening points.
Class A	up to 105°C	Paper, cotton or silk impregnated with oil or varnish, or laminated with natural drying oils, resins(eg. phenolic); esterified cellulose fibres; polyamides; a variety of organic varnishes and enamels used for wire coating and bonding.
Class E	up to 120°C	Phenol-formaldehyde and melamine formaldehyde mouldings and laminates with cellulosic reinforcement; polyvinyl formal; polyurethane; epoxy resins and varnishes; cellulose triacetate; polyethylene terephthalate(PETP); oil modified alkyd.
Class B	up to 130°C	Inorganic fibrous and flexible materials (mica, glass or asbestos fibres and fabrics, etc.) bonded and impregnated with suitable organic resins; shellac bitumen; alkyd; epoxy; phenolic or melamine formaldehyde.
Class F	up to 155°C	As Class B, but with resins approved for this class: alkyd, silicone-alkyd, epoxy and certain others.
Class H	up to 180°C	As Class B, but with silicon resins (a number of high temperature resins, both thermosetting and thermoplastic have appeared since this classification was drawn up).
Class C		Mica, asbestos, ceramic, glass, alone or with certain inorganic binders or silicone resins; fluoroplastics (eg. PTFE).

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TABLE 3

REINFORCING FIBERS FOR FRICTION MATERIALS

	Advantages	Problems
KEVLAR	Strength, modulus, density thermal stability, wear	Mixing, Machining
STEEL	Strength, modulus, density thermal stability	Density, corrosion Low cold friction
GLASSFIBRE	Strength, modulus	Melt causes fade, Low wear resistance, Aggressive wear
SYNTHETIC FIBRES	Strength	Melt causes fade
CELLULOSIC FIBRES	Infusible	Low strength, modulus Low char
CARBON FIBRES	Strength, modulus, Thermal stability, infusible	Fiber form lost in mixing - Price
ASBESTOS	Strength, modulus, Thermal stability, infusible, wear	Environmental & health problems

TABLE 4

TESTS OF DRY FRICTION MIXES

	Dispersion	Molding	Machining	Friction	Wear mm^3/MJ	Fade
Asbestos control	Excellent	Excellent	Excellent	Excellent	30	Excellent
5% KEVLAR 6mm 12 um diameter	Good	Good	Good	Excellent	20	Excellent

*source Du Pont

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