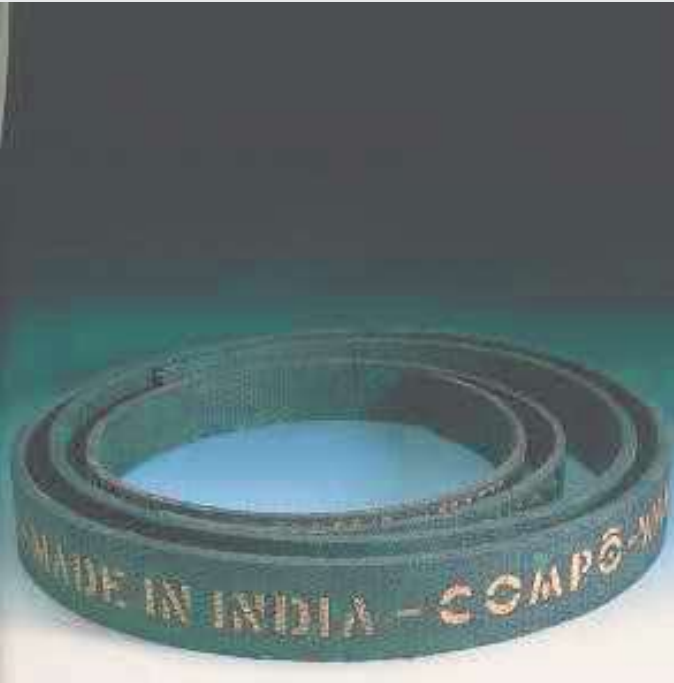




INDUSTRIAL PRODUCTS CATALOGUE



COMPO WA-8



is a flexible, solid woven, asbestos based friction material made from asbestos yarn, spun around brass wire, which contributes considerably to its strength. WA-8/WA-6 has a medium/high co-efficient of friction combined with moderate temperature and wear resistance. WA-8/WA-6 is available in roll form. Segments, Cones and special shapes can easily be cut from it. Being a flexible material, it is possible to form it to radius when fitting it. Forming can be made easier by placing the material in an oven at a temperature of not more than 100°C (212°F) until it has heated throughout to soften the impregnant. WA-8/WA-6 is designed solely for use under dry conditions (i.e. it is not suitable for use in oil). WA-8/WA-6 can also be supplied with both surfaces ground.

APPLICATIONS :-

Industrial band and drum brake Linings ;Industrial band, plate and cone clutch linings (eg. cranes, lifts, excavators .winches, concrete mixers, drop hammers, mine widening appliances, underground haulages, tippers, oil well draw works, road rollers, sugar mill centrifuges), certain heavy road transport vehicles and tractors.

TECHNICAL DATA :-	WA-8	WA-6	WA-42
Co-efficient of Friction for Design Purpose	: 0.35/0.45	0.30 / 0.40	0.28/0.38
PHYSICAL PROPERTIES :-			
Data based on standard test methods			
Specific gravity	: 1.40/1.60	1.26 / 1.40	1.30/1.45
% Ash Contents	: 50/60	45 / 55	
ult. tensile strength	: 246 kg/cm ²		210 kg/cm ²
ult. compressive strength	: 500 kg/cm ²	450 kg/cm ² min	500 kg/cm ²
Rivet holding capacity	: 900 kg/cm ²		970 kg/cm ²
RECOMMENDED OPERATING TEMPERATURE :-			
Maximum operating temperature	: 260°C	230°C	350°C
Maximum continuous temperature	: 125°C	125°C	150°C

COMPO WA-6



NOTE :-

The continuous temperature quoted is for constant slip conditions. For intermittent applications, bulk temperatures of 160°C are acceptable for long periods.

RECOMMENDED MATING SURFACE :-

Good quality fine grained pearlitic cast iron. Cast steel is not a suitable mating surface but forged or cold rolled steel with a Brinell hardness of 200 or more may be used.

DESIGN VALUE :-

The co-efficient of friction for design should be based upon the graph, the severity of application and maximum anticipated operating temperature being taken into account. Normal engineering practice should be followed in applying an appropriate safety factor to torque requirements of brake / clutch units.

MACHINING DETAILS :-

High speed steel tools are recommended for use with this material.

SIZE RANGE (NOMINAL) :-

Supplied in rolls of approximately 15 meters (50 ft) in thickness from 4.8 mm (3/16") to 19mm (3/4") and width from 25.4 mm (1") to 635.0 mm (25")

COMPO WA-42



WA-42

is a semi-rigid **non-metallic**, woven asbestos friction material bonded by a high temperature impregnant to give it enhanced mechanical strength and good antifade and wear properties.

The material is sufficiently flexible to accommodate small changes in radius and to make it suitable for use as a band lining. The impregnant does not soften when heated and large changes in radius should not be attempted.

WA-42 is available in liner and roll form and is suitable for use under dry operating conditions (i.e. it is not suitable for use in oil).

INDUSTRIAL ROLL LINING

COMPO MAGMA-23



is a flexible, metallic, solid woven, asbestos based friction material made from yarn, spun around zinc wire/Brass, which considerably to its strength.

Magma-23 is available in roll form. Cones & shapes can easily be cut from it. Being a flexible material, it is possible to form it to radius when fitting it. The impregnant does not soften when heated & large changes should not be attempted.

APPLICATION:- General purpose automotive drum brakes, Ind. Band/Drum Brakes & Clutches. Drive Shaft transmission brakes, Misc. Friction Devices.

TECHNICAL DATA:-

Co-efficient of Friction (Mue) : 0.30/0.40

PHYSICAL PROPERTIES:-

Specific Gravity : 1.40/1.55
 % Ash Content : 40/55
 % Acetone Extraction : 3.50 (Max.)
 Ult. Compression Strength : 450 kg/cm² min

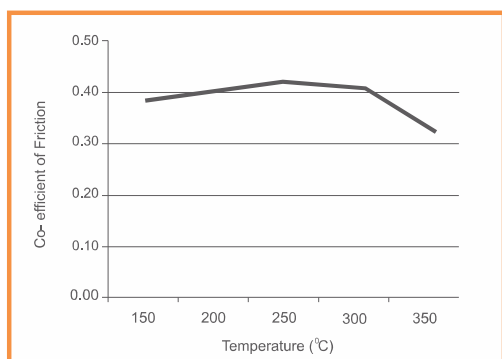
RECOMMENDED OPERATING TEMPERATURE:-

Maximum operating temperature : 250°C
 Maximum continuous temperature : 125°C

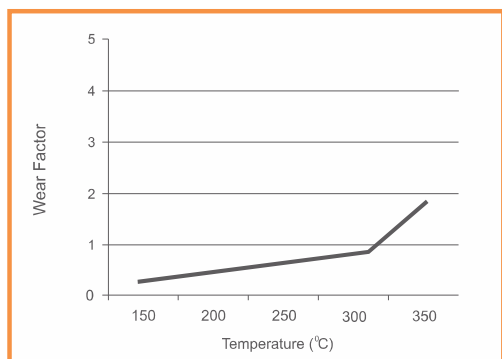
RECOMMENDED MATING SURFACES:- Good quality fine grained alloy cast iron & steel with Brinell hardness of 150 or more may be used.

MACHINING DETAILS:- Carbide tools/drills are recommended for use with this material.

TYPICAL FRICTION PROPERTIES



TYPICAL WEAR PROPERTIES



COMPO SUPER



is a flexible, solid woven asbestos based friction material made from yarn, spun around **Copper wire/Brass/Zinc**, which contributes considerably to its strength. It has a medium/high co-efficient of friction combined with moderate temperature & wear resistance.

It is available in roll form segments, cones & special shapes can be easily be cut from it. Being a flexible material, it is possible to form it to radius when fitting it. Forming can be made easier by placing the material in an oven at a temp. of not more than 100°C until it has heated throughout to soften the impregnant. Magma super can also be supplied with one/both surface magma super is designed solely for use under dry conditions.

APPLICATIONS:- Industrial band & drum brake lining. Industrial band, plate & cone clutch lining. (eg. cranes, lifts, excavators, winches, concretes mixers, drop hammers, mine widening appliances, underground haulages, tippers, oil well draw works, road rollers, suger mill centrifuges)

Certain heavy road transport vehicles & tractors.

TECHNICAL DETAILS:-

Specific Gravity : 1.40/1.65
 % Ash Contents : 45/60
 Ultimate Compression : 450 kg/cm² min
 Co-efficient of Friction : 0.30/0.45

RECOMMENDED OPERATING TEMPERATURE:-

Max. Operating Temp. : 300°C
 Max. Contineous Temp. : 125°C

NOTE:- The continuous temperature quoted is for constant slip condition. For intermittent application, bulk temperatures of 160°C are acceptable for long period.

RECOMMENDED MATING SURFACE:- Good quality fine grained pearlitic cast iron. Cast steel is not suitable mating surface but forged or cold rolled steel with a brinell hardness of 500 or more may be used.

MACHINING DETAILS:- High speed steel tools/drills are recommended for use with this material for drilling and boring.

AVAILABILITY:-

Supplied in roll form, cut & shape linings
 Nominal Roll Length : 10 & 15 mtrs
 Thickness : 5 mm (3/16") to 19 mm (3/4")
 Width : Up to 635 mm (25")

