

FRICION SHEET COMP^o WAS – 80

COMP^o WAS-80 is a clutch facing material having a non – metallic woven asbestos base impregnated with an infusible bond which gives it good durability and resistance to fade. It possesses a medium coefficient of friction and is capable of satisfactory performance under reasonably high clutch temperatures.

It is recommended for general engineering requirements where exigencies of exceptional flange width or other dimensions force the adoption of facings in two or more segments. It is intended for use under dry conditions of operations. It is available in flat sheet form.



APPLICATIONS

INDUSTRIAL CLUTCHES:

General engineering application. Tractor main engine clutches.

TECHNICAL DATA:

Friction
 μ for design purpose : 0.30 (Dry)

PHYSICAL PROPERTIES(NOMINAL):

Data based on standard test methods.

Ultimate Tensile strength : 280 kg/cm²
 Ultimate shear strength : 360 kg/cm²
 Ultimate compressive strength : 1547 kg/cm²
 Rivet holding capacity : 1200 kg/cm²
 (load to failure on rivet lead hole projected area).
 Specific gravity : 1.6

CLUTCH DESIGN:

The applied load in a clutch is not transmitted as efficiently as in a brake and the full effective torque radius is not always developed. It is usual, therefore, to use a lower design friction value for a clutch than for a brake with similar torque characteristics. The coefficient of friction for design should be based upon severity of the application and the maximum anticipated operating temperature. Normal engineering practice should be followed in applying an appropriate safety factor to the torque requirements of the unit.

RECOMMENDED OPERATING TEMPERATURES:

Maximum temperature : 350°C
 Maximum continuous temperature : 125°C

NOTE:

It is possible to exceed the recommended maximum continuous temperature in commensurate with a reasonable rate of wear.

RECOMMENDED MATING SURFACE:

- Good quality close grain or alloy cast-iron.
- If steel, then forged or cold rolled with a Brinell hardness of 150 or over. Cast steels are not recommended for use as mating surface.

MACHINING:

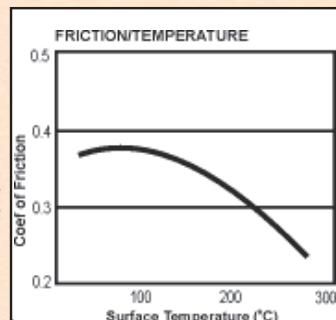
High speed steel tools are satisfactory for use with this material.

SIZE RANGE:

Thickness : 3 mm to 10 mm
 Sheet size : 1752 mm x 950 mm

Thickness : 11 mm to 32 mm
 Sheet size : 914 mm x 914 mm

This graph is derived from the results of a large number of tests and therefore represents the average friction level of the material.



FRICION SHEET COMP^o WASM – 80

COMP^o WASM-80 is a clutch facing material having a woven asbestos base with metallic inclusions in the form of brass wire. It is impregnated with an infusible bond capable of withstanding reasonably high clutch temperatures. It has a medium coefficient of friction, combined with good resistance to temperature and wear. WASM-80 is intended for use under dry operating conditions and is available in flat sheet form.



APPLICATIONS

INDUSTRIAL CLUTCHES:

General engineering applications Tractor main engine clutches.

TECHNICAL DATA:

Friction
 μ for design purpose : 0.32 (dry)

PHYSICAL PROPERTIES(NOMINAL):

Data based on standard test methods.

Ultimate Tensile strength : 280 kg/cm²
 Ultimate Shear strength : 360 kg/cm²
 Ultimate Compressive strength : 2250 kg/cm²
 Rivet holding capacity : 1230 kg/cm²
 Specific gravity : 1.7

CLUTCH DESIGN:

A friction clutch should be capable of transmitting without slip, the maximum torque that can be applied to it once the clutch is fully engaged. The applied load in a clutch is not transmitted as efficiently as in a brake and the fully effective torque radius is not always developed. This should be borne in mind when selecting the design co-efficient of friction, also taking into account the severity of the application and maximum operating temperatures of clutch surface. Normal engineering practice should be followed in applying an appropriate safety factor to the torque requirements of the unit.

RECOMMENDED OPERATING TEMPERATURE:

Maximum temperature : 350°C
 Maximum continuous temperature : 125°C

NOTE:

It is possible to exceed the recommended maximum temperature for a short period. The recommended maximum continuous temperature is commensurate with a reasonable rate of wear.

RECOMMENDED MATING SURFACE:

- Good quality close grain or alloy cast-iron.
- If steel, then forged or cold rolled with a Brinell Hardness of 200 or over. Cast steels are not recommended for use as mating surfaces.

MACHINING:

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

SIZE RANGE:

Thickness : 3 mm to 10 mm
 Sheet size : 1752 mm x 950 mm

Thickness : 11 mm to 32 mm
 Sheet size : 914 mm x 914 mm

Note This graph is derived from the results of a large number of tests and therefore represents the average friction level of the material.

