



Champion Technologies, Inc.
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I Product Information			
Product Name: AFT-1006			
Trade Name: None assigned			
II NFPA (0 = No Hazard; 4 = Severe Hazard)			
Health = 1		Reactivity = 0	Fire = 1
III Ingredient Information			
Hazardous Components	CAS Number	OSHA PEL (mg/m_)	ACGIH TLV (mg/m_)
Aluminum Oxide	1344-28-1	10	10
Barium Sulfate	7727-43-7	5	10
Fiberglass	Not Assigned	15	10
Magnesium Oxide	1309-48-4	15	10
Mineral Fiber	Not Listed	15	10
Particulate, Not Regulated	Not Applicable	15	10
IV Physical Data			
Boiling Point: (°F): NA		Evaporation Rate (Butyl Acetate = 1): NA	
Vapor Pressure (mm Hg): NA		Specific Gravity (Water = 1): 1.95 (Typical)	
Water Solubility (%): NA		Melting Point (°F): NA	
Vapor Density (Air = 1): NA		% Volatile by Volume: NA	
Appearance and Odor: Tan to light brown, with light phenolic odor			
V Fire and Explosion Data			
Flash Point (°F): NA		Flammable Limits: LEL = NA UEL = NA	
Extinguishing Media: Water, foam, dry chemical		Unusual Fire & Explosion Hazards: None	
Special Fire Fighting Procedures: Self-contained breathing apparatus (SCBA) should be used in a sustained fire.			
VI Health Data: A - Summary Risks			
Mineral Wool Fiber: Limited evidence of carcinogenicity in humans. However, IARC concluded that Mineral Wool Fiber should be placed in Category 2B, possibly carcinogenic to humans.			
Continuous Filament Fiberglass: Inadequate evidence of carcinogenicity in both human and animal scientific studies to link fiber to human cancer. Therefore listed as Group 3.			
Clinical Conditions Which May be Aggravated: Any condition generally aggravated by mechanical irritants in the air or on the skin.			
Target Organs: Skin, lungs			
Acute Health Effects: Temporary irritation of the mouth, nose, and throat			
Chronic Health Effects: None known			
Primary Routes of Entry: Inhalation			

VI	Health Data: B - Signs/Symptoms of Overexposure				
Inhalation: May cause temporary upper respiratory irritation					
Skin Contact: Acute - Transient mechanical irritation Chronic - None known.					
Ingestion: Acute - Unlikely occurrence. Observe individual & if symptoms develop, consult physician Chronic - None known.					
Eyes: Acute - Direct contact may cause mechanical irritation. Chronic - None known.					
VI	Health Data: C - Emergency First Aid Procedures				
Inhalation: Remove individual from exposure. Seek help if irritation persists.					
Skin Contact: Wash with mild soap and water.					
Ingestion: Unlikely occurrence. Consult physician if any unusual reaction is observed.					
Eyes: Flush with running water for at least 10 minutes. If symptoms persist, seek immediate medical attention.					
VII	Reactivity Data				
Conditions to Avoid: Avoid creating dust. Use vacuum when possible.					
Hazardous Decomposition Products: Incomplete combustion may release toxic products.					
VIII	Spill or Leak Procedures				
Procedure(s) for Spill/Leak: Use vacuum if dust is involved.					
Waste Management: In accordance with national, state, and local regulations.					
IX	Special Protection Information				
Ventilation: Use exhaust ventilation when available.					
Respirator: Use NIOSH approved nuisance dust respirator if TLV limits are exceeded.					
Goggles: Use may be appropriate in some operations.					
Gloves: Use may reduce skin irritation in some handling situations					
Miscellaneous: Wear long sleeved shirts and loose fitting clothing. Use good personal hygiene.					
X	Special Considerations				
Special Storage & Handling: Store in cool, dry area.					
Label Information: "Any fiber or dust may be hazardous to your health. Use respirators and/or other dust control measures as well as eye protection, when handling or processing this product. Do not ingest."					
Miscellaneous: After handling, wash with mild soap and water. Wash work clothes separately.					

Note: The information and recommendations contained in this Material Safety Data Sheet are taken from sources which are believed to be accurate. **Champion Technologies, Inc.** make no warranty with respect to the accuracy of the information or the suitability of the recommendations, and assumes no liability to any user of the information or recommendations.

Prepared / Revised by: Robyn Willoughby



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BRAKE and CLUTCH COMPOSITE:

AFT-1006

PRODUCT DESCRIPTION and APPLICATION: AFT-1006 is a high coefficient rigid molded composite, available in slabs, or segments for shoe and band applications.. Its coefficient stability and good wear rate make it particularly suitable for industrial and off-road use.

PHYSICAL PROPERTIES -

Specific Gravity, typical	1.7 – 1.75	SAE – J380
Apparent Density, pounds / in ²	0.061 – 0.063	
Maximum Available Size -		
Width	38"	
Thickness, Maximum / Minimum	1.5" / 0.375"	
Length	38"	

MECHANICAL and THERMAL PROPERTIES -

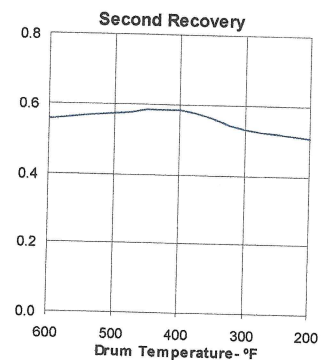
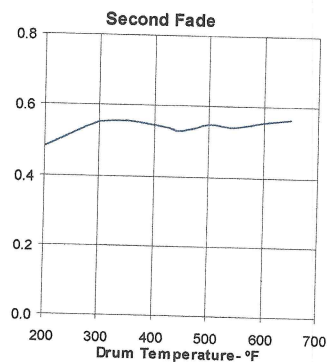
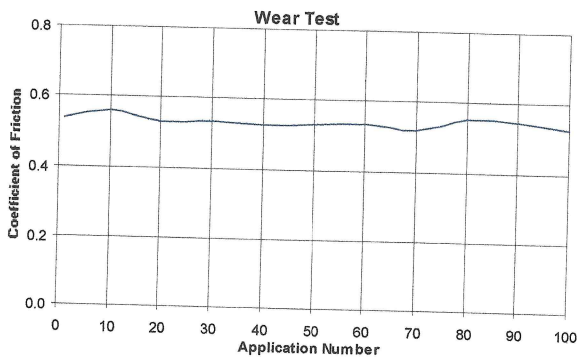
Tensile Strength, psi	1600	ASTM – D638
Modulus x 10 ⁶	1.18	
Elongation, %	0.16	
Flexural Strength, psi	4575	ASTM – D790
Modulus x 10 ⁶	0.77	
Compression Strength, psi	11,100	ASTM – D695
Shear Strength, psi	4550	ASTM – D732
Thermal Conductivity, BTU-in/hr/ft ² /°F	To be determined	

FRICITION PROPERTIES -

Coefficient of Friction -		SAE J661
Normal	0.52	
Hot	0.54	
Typical @ 400°F.	0.54	
Wear Rate, in ³ /hp-hr	0.0187	
Friction Code	GG	SAE J866
Suggested Operating Limits - **		
Maximum Pressure, psi	200	
Maximum Surface Speed, ft/min	5000	
Temperature, °F.		
Maximum, Intermittent	650°	
Maximum, Sustained	550°	

** Suggested operating limits are consistent with uniform performance and acceptable wear rate

Coefficient of Friction From SAE J661 Test Procedure



The data presented herein was obtained from industry accepted standards. **Champion Technologies Inc.** provides the information in good faith but make no representation as to its completeness or accuracy. The information is intended only as a guide, and independent judgement must be exercised in determining suitability of the material for a particular purpose.

Lining, Material Safety Data Sheet

1. Material-/Process-and Company Name

1.1 Product specification

Product Name : Lining for Rope Gripper

1.2 Address, Supplier : GUMYOUNG GENERAL CO., LTD.

1.2.1 Supplier

3FL., Joong Ang Bldg, 240-10, Nonhyun-Dong, Gangnam-Gu, Seoul, Korea (Zip 135-011)

Phone : 82-2-2056-1130 Fax : 82-2-540-5007

E-Mail : gummyoung@gyg.co.kr Home-Page : <http://www.gyg.co.kr>

2. Composition / Details of Components

2.1 Chemical Characterization (Product)

2.1.1 Description : This non-asbestos friction material is multi-ingredient system with resins and caoutchouc as a binding agent in a cured and vulcanized form.

2.1.2 Ingredient(s) : Trade Secret

2.1.3 Additional Notes : When handling friction liners fine dusts with harmful substances can be released especially,
when carrying out mechanical finishing work or maintenance work

3. Possible hazard

3.1 Marking of hazard : No obligation

3.2 Special warnings for people and environment : When correctly handled no hazards for people and environments are known so far.

4. First Aid Measures

4.1 General Advice : there is no direct danger arising from the product and the ingredients. Contact with skin/eyes can cause rash. irritations due to fibre-constituents.

4.2 After skin contact : After contact with powder constituents, wash off thoroughly with water.

4.3 After eyes contact : After contact with powder constituents, rinse with water thoroughly.

5. Fire Fighting Measures

5.1 Suitable Extinguishing Agents : water, foam, ABC-powder, CO₂.

5.2 Special dangers caused by the material, its combustion or developing gases

5.3 Special protective equipment : Oxygen respirator

6. Measures When Unintentionally Released

6.1 Additional Notes : Information for safe handling see item 7.

Information for personal Protective equipment see item 8.

Information for product disposal see item 13.

7. Handling and Storing

7.1 Handling

7.1.1 Information for safe handling : Avoid dust and dust accumulation.

Dust removal by suitable industrial vacuum-cleaner or central Exhausting.

7.2 Storing

7.2.1 Storerooms and container requirements : Ventilated Storerooms.

7.2.2 Storing with other materials : Do not store together with corrosive substances.

7.2.3 Further Notes for Storing conditions : Dry storage

8. Maximum Exposure Values and Personal Protective Equipment

8.1 Ingredients with critical values to be controlled in relation to workplaces:

8.1.1 CAS-No.	Substance	Value	Quantity	Unit
00000-00-0	Respirable fibres	TRK	0,5	F/cm³
00000-00-0	Standard Dust limit	MAK	6	mg/cm³

8.1.2 Further Information : The limiting values indicated are to be applied exclusively with respirable dusts, they are not relevant with respect to the finished product.
For respirable fibres the TRK-Value of artificial ceramic fibres is indicated.

8.2 Pers. Protective Equipment

8.2.1 General Measures for Protection and Hygienics : Don't eat, drink or smoke while working.

8.2.2 Respiratory Protection : Use respirator protection when exposed to respirable dust.

8.2.3 Hand Protection : Wear rubber gloves.

8.2.4 Body Protection : Wear light protecting clothes.

9. Physical and Chemical Properties

Characteristics

9.1.1 Aggregate State	solid
9.1.2 Colour	dark yellow
9.1.3 Odour	not characteristic

Safety relevant data

9.1.4 Specific gravity	value
by T = 20 °C	1.75 – 1.95
9.1.5 Solubility : Practically insoluble.	

10. Stability and Reactivity

10.1 Substances to be avoided : See item 7.2.2

10.2 Hazardous Decomposition Products : At temperatures > 250°C depending on reaction conditions in changing composition : CO, H, phenolic-, aromatic- and aliphatic hydro-carbonics

11. Information on Toxicity

No Informations

12. Ecological Effects

Water pollution category : Not to be applied to finished product.

13. Disposal

13.1 dispose in approved landfill

13.1.1 Recommendation : Packing material which is not contaminated, can be recycled.

~~14. Transport / Regulations~~

14.1 No dangerous goods

15. Regulations

15.1 Marking according to item 3.1

16. Further Information

The data reflect the state of the art. They give no contractual guarantee of product properties.

Distributor Safety Data Sheets : Safety at work Department

Name

SOO YONG, CHOI Tel. 82-2-2056-1130