

### HeatShield®

Elliott Australia's HEATSHIELD is a Type E Glass Fibre – High Bulk borosilicate type. The intended use for this fabric is all high temperature applications where the need for thermal insulation is required.

Identification	
Identification reference	111000
Description	Glass fiber cloth
Weave	Plain
Weight (g/m <sup>2</sup> )	1185 ±100
Thickness (mm)	2 ±0.15
Tensile strength Warp (N/cm) Weft (N/cm)	1250 1250
Melting temperature	700°C
Service temperature	Up to 550°C
Roll length (metre)	30
Roll width (mm)	1000
N.B. Unless otherwise stated, all values quoted are nominal measurements.	
The information contained in this data sheet is believed to be true at the time of printing. Any statements contained or inferred to within are an expression of opinion and presented without guarantee. It is up to the user to determine suitability of use, or potential patent infringement for specific applications.	

Identification	
Other names	Fibreglass, glassfibre
Chemical name	Low Alkali, Borosilicate Glass Fibre with an organic size (2.5%)
Component	SiO <sub>2</sub> : 65%, Al <sub>2</sub> O <sub>3</sub> : 4%, B <sub>2</sub> O <sub>3</sub> : 5%, MgO:3%, CaO: 14%, Na <sub>2</sub> O: 8.5%, FeO <sub>3</sub> : 0.5%
UN number	N/A
Dangerous goods class and subsidiary	Non-hazardous
Hazchem code	N/A
Hazard class	Non-combustible solid
Poisons schedule number	N/A
Use	Non-asbestos thermal insulation blanket. Welding Blankets, Stress Relieving Insulation, Furnace Curtains.

### HeatShield®

Technical Data	
Fire and explosion hazard data:	
Flash point: (test method/s)	May emit smoke briefly between 120°C–180°C but is unlikely to flash.
Flammable limits in air % by volume	Lower: N/A Upper: N/A
Extinguishing media	Water (for the packaging materials)
Special fire fighting procedures	None
Unusual fire and explosion hazards	None
Reactivity data:	
Stability	Stable
Conditions to avoid	None known
Incompatibility (materials to avoid)	None known
Hazardous decomposition products	None
Hazardous polymerization	Will not occur

## Material Safety Data Sheet

### HeatShield®

Health Hazard Information	
Health hazard data:	
Threshold limit value	*10mg/m <sup>3</sup> of total dust or 5mg/m <sup>3</sup> of respirable dust (*Nh & Mrc recomm, 1984). These reinforcement fibres have a filament diameter greater than 6 microns and are not classified as respirable.
Effects of exposure:	
Eye (contact)	Dust can cause irritation to eyes. Appropriate eye protection should be worn in areas where there is likelihood that airborne fibres may contact eyes.
Skin (contact and absorption)	Can irritate (largely confined to cutting, trimming and grinding operations) *see below
Inhalation (breathing)	Not respirable but dust masks may be beneficial in areas where high dust levels occur.
Ingestion (swallowing)	Non-toxic (extensive studies have revealed no series effects).
Other health hazards	There is no credible evidence of other health problems however it would be wise to maintain worker exposure at a minimum level, particularly where trimming, sawing and grinding operations are being conducted.
First aid:	
Eye (contact)	Flush with water for 15 minutes – get medical assistance if irritation persists.
Skin (contact)	None wash, using warm water and mild soap.
Inhalation (breathing)	Remove to fresh air. Drink water to clear throat and blow nose to evacuate fibers.
Ingestion (swallowing)	Rinse mouth with water. Emetics not necessary unless choking is apparent.
Spills or leak procedures:	
Steps to be taken in case material is released or spilled	Prevent the spread of fibreglass dust and avoid dust generation conditions. Those involved in clean up of particulates should use appropriate personal protective equipment. (See section viii) vacuum clean dusts. If sweeping is necessary, use a dust suppressant.
Water disposal method	In most cases, woven fibreglass scrap can be disposed of in a sanitary landfill in accordance with federal, state and local regulations. Check with local authorities on any questions concerning disposal.



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Health Hazard Information	
Special protection information	
Respiratory protection (specify type)	Where dust levels exceed the TLV, use NIOSH approved respirator to protect against nuisance dusts.
Ventilation (local)	Recommended for processing machinery where dust generation is apparent.
Ventilation (exhaust)	Recommended for processing machinery where dust generation is apparent.
Mechanical (general)	Yes, where local exhaust ventilation is not feasible.
Special: not normally required	Other: not normally required
Protection gloves	Gloves and barrier creams if necessary.
Eye protection	Safety glasses with side shields/goggles.
Other protective clothing or equipment	Work aprons or smock are recommended. Wear loose fitting, long sleeved clothing, niosh approved air supplied or self contained respirator or nonrouting and emergency situations.
Work/hygienic practices	Wash thoroughly after work. Recommend launder work clothes separately and wipe out washer at end of cycle.
Precautions for Use	
Precautions to be taken in handling and storing	Store and use in a manner that will prevent airborne particulates in the workplace.
Other precautions	None known.
Other Information	
Work/hygiene practices – Wash thoroughly after work. Recommend launder work cloths separately and wipe out clothes washer after use.	

### Disclaimer

The information provided herein is believed to be accurate but is not warranted to be, whether it originated with Elliott Australia or not. The information contained in this Material Data Sheet originates from suppliers, this information cannot be warranted by Elliott Australia to be correct or appropriate for the recipients intended use.

