



MATERIAL SAFETY DATA SHEET

Alumina Substrate/ Membrane Products

1. Product and Company Reference

- 1.1. Product Reference: Alumina Substrate/ Membrane Products – A porous alumina body produced in cylindrical lengths. Lengths may contain single or multiple perforations dependent upon application. Products have been fired to temperatures in excess of 1400°C. End seals may be achieved by epoxy/ phenolic resin or leadless ceramic glaze
- 1.2. Company Name: Mantec Technical Ceramics Ltd
- 1.3. Contact Details: Normacot Road, Longton, Stoke on Trent, Staffordshire, ST3 1PA, England
- 1.4. Website: www.mantectechnicalceramics.com
- 1.5. Fax: +44 1782 377599
- 1.6. email: info@mantectc.com
- 1.7. Emergency Tel: +44 1782 377550 (Not 24hrs)

2. Hazards Identification

The articles, as supplied, are not considered dangerous to health or the environment. Dust generated by a cutting, grinding or abrasive operation, however, may lead to respiratory problems if there is long term exposure to excessive levels.

3. Composition/ Information on Ingredients

Ingredient/ Component Name	%	CAS Number	EINECS Number	Classification
Aluminium Oxide	99+	1344-28-1	215-691-6	Non Hazardous

4. First Aid

- 4.1. Inhalation Remove from source to fresh air. If symptoms occur, seek medical attention
- 4.2. Ingestion No adverse effects expected. Treat symptoms
- 4.3. Skin contact No adverse effects expected with product. Possible mechanical irritation from direct contact with dust. In case of mechanical irritation, wash with mild soap and water and apply skin moisturizers
- 4.4. Eye contact No adverse effects with product. Possible mechanical irritation from direct contact with dust. Wash affected eye(s) with large amounts of clean water. If symptoms persist, seek medical attention

5. Fire – Fighting Measures

Ceramic product is incombustible and inert in fire therefore there are no special considerations to be made

6. Spillage

6.1. Personal Protection Avoid creating dust. Broken pieces may be a cut hazard. Wear suitable PPE

7. Handling & Storage

Suitable for the use the product is to be put

8. Exposure Control/ Personal Protection

8.1. Respiratory Protection If cutting, grinding, abrading is taking place

8.2. Hand Protection If cut hazard is identified

8.3. Eye Protection Recommended if cutting, grinding, abrading is taking place. In this case, the provision of clean water supply or eye wash facilities is recommended

9. Physical and Chemical Properties

Appearance white solid

Odour none

pH 7 in water

Boiling Point above 2900°C

Melting Point above 2030°C

Flammability not applicable

Explosive Properties not applicable

Oxidising Properties not applicable

Vapour Pressure not applicable

Relative Density 4

Solubility not soluble in water and common solvents

10. Stability and Reactivity

The article is inert and stable in normal conditions of temperature and pressure

10.1. Conditions to Avoid none

10.2. Dangerous decomposition products none

11. Toxicological Information

Non Toxic

12. Ecological Information

12.1. Persistence and degradability not biodegradable

12.2. Bioaccumulation not assimilated

12.3. Aquatic toxicity none

13. Waste Disposal

Unused products and residue may be disposed of as non toxic, inert materials to approved landfill sites in accordance with local regulations.

During use, the product may become contaminated with hazardous materials. Please refer to the relevant safety data sheet for those materials and treat accordingly

14. Transport

Not classified as dangerous for transport

15. Regulatory Information

None

16. Additional Information

This data sheet is prepared for the specific materials listed and is only valid for such materials as supplied. The information given is believed to be accurate at the time of issue and is given in good faith. This issue supersedes all previous issues.

No representation, warranty or guarantee is made as to accuracy, liability or completeness. The product is supplied on the condition that the user accepts responsibility to satisfy himself as to suitability and completeness of such information for his own particular use.

Where the information provided herein discloses a potential hazard or hazardous ingredient, adequate warning must be provided to employees and users and appropriate precautions taken, including the practice of good industrial hygiene.

16.1. **References: EH40 Occupational Exposure Limits. Health and Safety Executive
FICL Data Sheet DS-FF-13.118 Issue 1 26/2/09
EC Regulation 1907/2006 (REACH)**

16.2. **Issue 4 – 16th March 2017**