

KANTHAL® SUPER HT

SAFETY INFORMATION SHEET

数据表

This Safety Information Sheet provides essential health, safety, and environmental information for Kanthal® Super HT, an electrical heating element specifically developed for extended service life and high reliability in demanding high-temperature applications. Known for its exceptional oxidation resistance and stability, Kanthal® Super HT is suitable for use in aggressive atmospheres, including oxidizing, inert, carburizing, nitriding, and reducing environments. The information herein is intended to assist users in the safe handling, installation, operation, and disposal of Kanthal® Super HT in various industrial and manufacturing applications. While Kanthal® Super HT is considered stable under normal conditions, appropriate precautions should always be taken to minimize risks during its use. This document is not a substitute for regulatory compliance or a Material Datasheet, but complements it by offering additional safety guidance specific to this material.

IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY UNDERTAKING

Trade name: Kanthal® Super HT

Product type: Electrical heating element

Manufacturer/Supplier:
Kanthal AB
Box 502
734 27 Hallstahammar
+46 220-210 00

E-mail: ehs@kanthal.com

Emergency telephone: Use your local emergency number

HAZARDS IDENTIFICATION

Symbol: -

R-value: -

Injurious to health: -

COMPOSITION/INFORMATION ON INGREDIENTS

| Compounds | EINECS-no. | CAS-no. | Content % | H-value |
|-----------|------------|---------|-----------|---------|
|-----------|------------|---------|-----------|---------|

| | | | | |
|--|-----------|-----------|--------|---------|
| Molybdenum tungsten disilicide, MoWSi ₂ | - | - | 95-100 | |
| Boron | 231-151-2 | 7440-42-8 | Max 5 | Xn. R22 |

FIRST AID MEASURES

Inhalation: Move to fresh air.

Skin contact: Wash with soap and water.

Eye contact: Rinse immediately with water for several minutes, with eyelids held open.

Ingestion: Not a normal route of exposure.

FIRE-FIGHTING MEASURES

Suitable extinguishing media: Use suitable extinguishing media for surrounding materials and type of fire.

Extinguishing media which shall not be used for safety reasons: None known.

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases: None known.

Special protective equipment for firefighters: Wear fully protective impervious suit.

ACCIDENTAL RELEASE MEASURES

Personal precautions: Use protective clothing and gloves. Also see p.8

Environmental precautions: -

Methods for cleaning up: Collect and sweep up. Avoid creating dust.

HANDLING AND STORAGE

Handling: Handle as glass.

Storage: Keep dry.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit values

Hygiene standards and exposure limits may differ from country to country. Check those currently applying in your country and comply with regulations. Examples of exposure limit applying Sweden are given below:

| Compound | Exposure limit | Type of value |
|-----------|---|---------------------------------|
| Molybdate | 5 mg/m ³ 10 mg/m ³ | NGV (Respirable) NGV (Total) |
| Tungsten | 5 mg/m ³ | NGV (Total) |

NGV = Level Limit Value, sanitary limit value for exposure during one working day.

Exposure controls

Preventive action: Good general ventilation is recommended.

Respiratory protection: Use when necessary.

Hand protection: Protective gloves.

Eye protection: Wear safety glasses when tooling.

Skin protection: Wear suitable protective clothing and protective shoes.

PHYSICAL AND CHEMICAL PROPERTIES

Form: Staff, tube

Colour: Metallic

Odour: Odourless

Density: $\approx 7 \text{ g/cm}^3$

Melting point (approx): $1,830^\circ\text{C}$ ($\approx 3,330^\circ\text{F}$)

Water solubility: Insoluble

STABILITY AND REACTIVITY

Conditions to avoid: -

Materials to avoid: -

Hazardous decomposition products: As evaporated species MoO_3 , SiO_2 and SiO appear.

TOXICOLOGICAL INFORMATION

Inhalation: Danger of serious damage to health by prolonged exposure through inhalation of MoO_3 , SiO_2 and SiO .

Skin contact: -

Eye contact: Product dust may cause temporary mechanical eye irritation.

Ingestion: Not a normal route of exposure.

ECOLOGICAL INFORMATION

No data available.

DISPOSAL CONSIDERATIONS

Disposal in accordance with all applicable local and national regulations.

TRANSPORT INFORMATION

Road transport (ADR): Not classified as dangerous in the meaning of transport regulations.

REGULATORY INFORMATION

Symbol: -

H-value: -

P-value: -

OTHER INFORMATION

Information in this Safety Information Sheet is based on the form the product is released on the market.

List of relevant H- phrases: -

Declaration

The information given in this safety information sheet is based on the present level of our knowledge and experience. The data sheet describes the products with respect to safety requirements. The data given is not intended as a confirmation of product properties and does not constitute a legal contractual relationship, nor should it be used as the basis for ordering these products.

Revision:

Revised in accordance with CLP regulation. EC 1272/2008.