

INSULATING FIRE BRICKS

1. PRODUCT AND COMPANY IDENTIFICATION

Product identification

Refractory brick

Brand name:

PS5 ; PS6 ; PS8 ; 11-9 ; 13-9 ; 13-11 ; IFB13ALU; 20-115 ; 23-125 ; 23-130 ; 23-130L ; 25-135 ; 26SP ; 26-140 ; 26-145 ; 26HCA ; 28-150 ; 28-155 ; 30-160

Bricks labelling:

PS5 ; PS6 ; PS8 ; 11-9 ; 13-9 ; 13-11 ; IFB13ALU; 20-115 ; 23-125 ; 23-130 ; 25-135 ; 26SP ; 26-140 ; 26-145 ; 26HCA ; 28-150 ; 28-155

Use of product

This product is made to resist at high temperature. This temperature depends on quality. See on appendix 1.

Identification of the company

INSULCON B.V.

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2. HAZARDS IDENTIFICATION

Main hazards

Inhalation :

R48/20 : Toxic : risk of serious health effect in the case of long term overexposure by inhalation.

R68/20 : Toxic: risk of irreversible effects by inhalation.

Skin contact : none, except the fact that it is an abrasive material.

Eyes : can cause eye irritation.

Ingestion : can cause gastro-intestinal irritation.

Environmental dangers : the product is inert.

3. INFORMATION ON INGREDIENTS

Hazardous

Ingrédients	CAS number	EINECS number	Symbol	R Phrase
Cristobalite	14464-46-1	238-455-4	Xn	R48/20
Tridymite	15468-32-3	239-487-1	Xn	R48/20
Quartz	14808-60-7	238-878-4	Xn	R48/20

Percentage of cristobalite, tridymite and quartz depend on bricks quality. See on appendix 1.

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Form: B2-051 t/m B2-060
Effective: 15012021/CD/ka
Supersedes: 10122015/CD/ka
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4. FIRST AID MEASURES

Inhalation	: Move to fresh air. Drink water to clear throat and blow nose to evacuate dust. If coughing and irritation develop, call a physician.
Skin contact	: No special danger.
Eyes contact	: Flush with large amounts of water until irritation subsides. See a physician if irritation persists.
Ingestion	: Drink water ; do not provoke vomiting. See a physician if problem persists.

5. FIRE FIGHTING MEASURES

The product is inert and non-flammable (non-explosive and non-combustible) and is totally compatible with all means of standard extinguishing. However the product is generally supplied on wooden pallets, polypropylene shrink wrapped. Any means of extinguishing should be compatible with this packaging.

6. ACCIDENTAL RELEASE MEASURES

Individual protection

Avoid eyes contact.
Wear a face mask.

Environnemental protection

The product is inert and unsolvable. Pick up waste and if it is possible cover the area to avoid dust to be blown away.

Clean-up method

Any mechanical means can be used. Avoid dust creation and use a dust removal system.

7. HANDLING AND STORAGE

Handling

Try to generate as least dust as possible. However machining may create dust and the area should be equipped for dust removal (natural or mechanical ventilation).

Storage

Store the pallets in a dry area away from intense heat to prevent damage to packaging. Avoid contact with strong acid.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Limit exposure values

Hazardous

Ingrédients	CAS number	EINECS number	TLV
Cristobalite	14464-46-1	238-455-4	0.05 mg/m ³ in 8h
Tridymite	15468-32-3	239-487-1	0.05 mg/m ³ in 8h
Quartz	14808-60-7	238-878-4	0.1 mg/m ³ in 8h

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Personal protection

- Respiratory protection :** wear an approved face mask to protect against silicosis and pneumoconiosis due to dust.
- Hands protection :** protective gloves should be adequate.
- Eyes protection :** wear safety glasses when cutting to protect eyes against dust and projections.
- Skin protection :** no particular protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Main properties

- o Shape : solid (brick, slab)
- o Color : white to grey
- o Odor : odourless

Change of state

- o Melting point : depends on quality. See on appendix 1.

Inflammability : non-flammable

- Explosion : no danger of explosion
- Density : depends on quality. See on appendix 1.
- Solubility : unsolvable in water

10. STABILITY AND REACTIVITY

- Stability : product is stable under normal conditions.
- Hazardous reactions : contact with hydrofluoric acid.
- Hazardous decomposition product: none.

11. TOXICOLOGICAL INFORMATION

- Acute toxicity : Silica dust may cause eyes and respiratory system irritation.
- Chronic toxicity : Long term overexposure to respirable crystalline silica dust may cause permanent and irreversible lung damage including silicosis. The International Agency for Research on Cancer (IARC) has classified occupational exposures to respirable crystalline silica as being carcinogenic to humans (Class 1).

12. ECOLOGICAL INFORMATION

The product is inert and can not decompose to form a substance harmful for the environment.

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13. DISPOSAL CONSIDERATIONS

Unused products may be treated as non-hazardous waste in a landfill for non-hazardous wastes in accordance with local or national legislation. The product may also be recycled. The product before use does not constitute a disposal hazard. However, before undertaking demolition of used refractory structures, users are advised to evaluate the changes in the product that may be the result of introduced substances or the operating conditions not under the control of the supplier.

14. TRANSPORT INFORMATION

No special or legislative measures are required for the transportation of this product.

15. REGULATORY INFORMATION

Marking according to CEE directives :

According to European directives 67/548/CEE et 88/379/CEE, no specific label is required on the pallets.

Characterisation of danger of the product :

Breathable crystalline silica is classified as being carcinogenic to humans (Class 1).

R Phrases :

R48/20 : Toxic : risk of serious health effect in the case of long term overexposure by inhalation.

R68/20 : Toxic: risk of irreversible effects by inhalation.

S Phrases :

S22 : Do not breathe in dust.

16. OTHER INFORMATION

As of the date of this document, the foregoing information is believed to be accurate and is provided in good faith to comply with applicable federal and state laws. However, no warranty or representation of law or fact, with respect to such information, is intended or given.