INFOSHEET

CEPRO®
LEADING IN WELDING SAFETY

OLYMPUS WELDING BLANKET

Description
For the Olympus heat resistant fabric high quality silica fibres are used, which are environmentally non-hazardous. Olympus is treated with a mineral based finish to improve its abrasive resistance and the resistance to fraying. Olympus is free of asbestos!

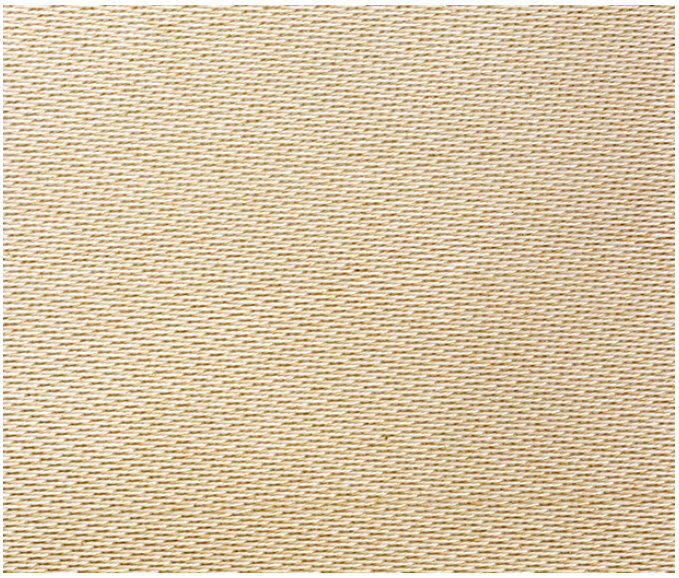
Application
The maximum application temperature is 1000 °C, shortly up to 1300°C.

Conditions for use
- CEPRO recommends the use of multiple layers for maximum protection.
- Always use welding blankets at an angle of at least 15 degrees.
- The temperatures shown are only an indication. The suitability of the selected product should always be tested beforehand.
- Regularly check welding blankets for tears and or other damage. Replace damaged blankets where necessary.
- Welding blankets can be used for many purposes and therefore, no guarantee can be given on their use. The end user is responsible for determining whether the welding blanket is suitable for use in a specific situation and whether it offers sufficient protection during the work to be performed.
- CEPRO welding blankets are sewn on the cut edges with best quality Kevlar thread.

Characteristics
Olympus is recommended for horizontal use, for example as a welding and grinding curtain in situations in which very high temperatures are reached. Olympus silicate-fabrics have excellent characteristics in relation to handling and resistance to high temperature loads. Therefore this fabric is suitable for use as welding blanket even under extreme conditions.

Available dimensions

Olympus welding blanket, 90 x 100 cm	56.50.91
Olympus welding blanket, 90 x 200 cm	56.50.92
Olympus welding blanket, 180 x 200 cm	56.50.95
Olympus welding blanket, 180 x 300 cm	56.50.96
Olympus welding blanket, 270 x 300 cm	56.50.97
Olympus welding blanket, 360 x 400 cm	56.50.99
Olympus welding blanket, 360 x 600 cm	56.50.992
Part of a roll, width 90 cm	56.50.09.0900
Full roll 50 m[1], width 90 cm	56.50.09.0950
Made to size welding blanket	56.50.90



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Autrement dit / *In other words*, A1

Classement de réaction au feu / *Reaction to fire classification* :	A1

4.3 Champ d'application / *Field of application*:

Le présent classement est valable pour les paramètres suivants liés au produit / *The classification is valid for the following product parameters* :

Composition : Aucune variation autorisée / *No variation allowed*

Epaisseur / *Thickness*: 1.25 mm

Masse surfacique / *Surface density*: 1.22 kg/m²

Couleur / *Color* : Sable / *Sandy*

Le classement est valable pour les conditions d'utilisation finale suivantes / *The classification is valid for the following end-use condition:*

Support / *Substrate* : Sans substrat / *Without substrate.*
Fixation / *Mounting method*: Sans fixation / *Without fixation.*

5. Restrictions / *Limitations*

Le présent document de classement ne constitue ni une approbation de type ni une certification du produit.
This classification document does not represent type of approval or certification of the product.

Signé
Signature de la personne qui effectue le classement
Signature of the person who realize the classification

Thomas TURF
Ingénieur praticien
Test engineer

Approuvé
signature de la personne autorisant le présent rapport
Signature of the person who authorize the report

Skander KHELIFI
Responsable Technique
Technical Manager

OLYMPUS WELDING BLANKET

Conforms to REGULATIONS (EC) No 1907/2006 (REACH)
(EC No1272/2008[CLP/GHS], (EU) No content EU 2015/830.
Date of issue/Date of Revision 08/03/2022

0. INTRODUCTION

Continuous glass fiber products are articles under EU regulation (REACH&CLP), US regulation (TSCA) and Japanese Regulation and therefore, no MSDS is legally required. Cepro International BV decides to continue to provide our customers for assuring the safe handling and use of continuous glass fiber products. This MSDS was revised in accordance with GHS.

1. PRODUCTS AND COMPANY INFORMATION

Name of product CONTINUOUS GLASS FIBER FILAMENT

Product description Article
Other means of identification: HIGH SILICA GLASS FIBRE
HIGH SILICA GLASS FIBRE PLIED YARN
HIGH SILICA GLASS FIBRE TEXTURED YARN
HIGH SILICA GLASS FIBRE CHOPPED STRANDS
HIGH SILICA GLASS FIBRE FABRIC
HIGH SILICA GLASS FIBRE MESH
HIGH SILICA GLASS FIBRE NEEDLED MAT

This material safety data sheet is valid for all these products.

Recommended use: Industrial applications

Manufacturer / Supplier **Cepro International BV**
Provinciënbaan 16
5121 DL Rijen
The Netherlands

Date of issue March 2022

Tel. no. for information / emergency +31 (0)161 22 64 72

2. HAZARD IDENTIFICATION

2.1 Classificationof the substanceor mixture
Product definition: Article
Classificationaccording to Regulation (EC) No. 1272/2008[CLP/GHS] Not classified.

High silica glass fibre and high silica glass fibre articles are not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

High silica glass fibre and high silica glass fibre articles does not contain any hazardous substances according to the RoHS - Directive 2017/2102/EU.

Details about chemical hazards are given in Section 3.

Toxicological aspects are developed in detail in Section 11.

2.2 Label elements
Signal word: No signal word
Hazard statements: No known significant effects or critical hazards
Precautionary statements
Prevention: Not applicable
Response: Not applicable
Storage: Not applicable
Disposal: Not applicable
Supplementallabelelements: Not applicable

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AnnexXVII - Restrictionson manufacture, placing on the market and use of certain dangerous substances,mixtures and articles:	Not applicable
Special packaging requirements **Containers tobe fitted with child-resistant fastenings**	Not applicable
Tactile warning of danger	Not applicable
2.3 Other hazards which do not result in classification:	Material is not an electrical conductor and may accumulate static charge.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/mixture: Article

Product/ ingredient name	Identifiers	%	Classification 67/548/EEC Regulation (EC) No.1272/2008[CPL]		Type
Fibrous glass, continuous filament	Not available	> 99.8	Not classified	Not classified	[A]
Binder/Sizing	Not available	< 0.2	Not classified	Not classified	[C]

Type:
[A]Constituent
[B]Impurity
[C] Stabilisingadditive
Occupation exposure limits, if available, are listed in Section 8.

4. FIRST AID MEASURES

Description of first aid measures

Eye contact: Flush in running water (for at least 15 minutes) and consult if necessary a doctor.

Inhalation: Remove from the scene of exposure to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

Skin contact: Remove contaminated clothing and shoes. Wash copiously with lukewarm soapy water without rubbing excessively. If irritation persists, seek medical attention.

Ingestion: If swallowed, rinse mouth with water (only if the person is conscious). Keep person warm and at rest. Do not induce vomiting. Get medical advice/ attention.

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing agent: Any of the extinguishing agents, including water, carbon dioxide gas, foam, dry chemicals and powder are effective. Select an extinguishing agent depending on circumstances (source offire, etc.).

Suitable extinguishing method: Use any of the ordinary fire extinguishing methods.

Other information: High silica glass fibre and high silica glass fibre articles are not combustible.

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions: If necessary, wear a safety mask, safety gloves or safety goggles.
Environmental precautions: No special environmental precautions required.
Clean up Method: If spilled on the floor, clean quietly so that dust particles will not be dispersed and put into a container or bag. For disposal, treat it same as general industrial waste.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Handling (Technical measures / Precautions / Safe handling advice):
It is preferable to avoid prolonged contact with the skin: wear gloves, garments with sleeves and long leggings or protective overalls, goggles and dust masks.

Storage:

Technical measures: Respect the stacking procedure recommended for each type of product.
Storage conditions: Store away from excessive humidity to prevent damage to the product and to the packing materials, which could lead to storage safety problems.
Incompatible material: Not relevant.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits:
Legal requirements for respirable and non-respirable dusts and fibres vary from country to country (or do not even exist). The table below (prepared using the knowledge we currently possess) shows the limits applicable indifferent countries for Time-Weighted Average (TWA) exposure.

Country	Dusts	WA (TimeWeighte-dAverage concentration) (mg/m3 for 8 hours work)	Fibres	WA (TimeWeightedAver-age concentration) (Fibres/ml for 8 hours work)
Austria	fine	6	total	0.5
Belgium	total	10	No regulation	
Denmark	respirable total	5 10	total	1
Finland	total	10	total	1
France	total	10	respirable	1
Germany	respirable	3	respirable	0.25
Great Britain	respirable total	5 10	respirable	2
The Netherlands	respirable total	2 10	total	1
Ireland	respirable	5	respirable	2
Italy	respirable total	3 10	total	1

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Norway	respirable total	5 10	total	1
Portugal	total	4	total	1
Spain	total	10	total	1
Sweden	respirable total	5 10	total	1
Switzerland	total	6	respirable	0.5
USA	respirable total	5 (OSHA)* 15 (OSHA)*	total	1 (ACGIH)**
Japan	respirable total	2(JSOH)*** 8 (JSOH)***	total	3 (RPHDD)****

* OSHA = Occupational Safety and Health Administration
** ACGIH = American Conference of Governmental Industrial Hygienists
***JSOH = Japan Society for Occupational Health
**** RPHDD = Regulation on Prevention of Hazards Due and Dust of Japan

Equipment measures: Install localized ventilation units in workplaces where dusts are generated by cutting, grinding and so on, and powder products such as milled fibers are handled. If ventilation units can't be installed for some reasons, be sure to wear a dust mask (approved by the government) during work. It is also preferable to provide facilities for washing the face and the body, gargling, changing and washing clothes.

Protective gear: Use the following protective gear as necessary in view of the conditions in the workplace environment.

- **Respiratory protection:** Dust mask (approved by the government authorities: replaceable / one-way)
- **Hand protection:** Gloves such as leather which don't allow glass fiber to pierce
- **Eye protection:** Safety glasses (goggle type)
- **Skin and body protection:** Loose-fitting top garment with long sleeves and collar (tightened cuffs) and long pants (tightened at the ankles).

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. High silicaglass fibre and high silica glass fibre articles:

Physical State: Solid
Form: Continuous or chopped or weaved or mats of fibre made up of continuous, parallelfilaments holding together.
Colour: White or yellowish white
Odour: Odourless
Odour threshold: Not available
pH: Not applicable

Specific temperature at which changes in physical state occur:
High silica glass fibre and high silica glass fibre articles:

Softening point: Littleton point (defined as the temperature for which the viscosity of glass is 107.65 Poises): approximately 1250OC.
Melting point: Not applicable. Glass does not melt, but the viscosity decreases by elevation of temperature and is 103 for high silica glass in a range of temperature between 1650OC and 1750OC (fiberizing temperature).

Initial boiling point and boiling range: Not available.
Flash point: Not applicable. (Product does not sustain combustion)
Evaporationrate: Not available.
Material supports combustion: No.
Flammability (solid, gas): Not available.
Upper/lower flammability or explosivelimits: Not applicable.

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Relative density:	2.65 to 2.7
Solubility (-ies):	Very low solubility in water. Sizes can be partially (and even totally) dissolved in most organic solvents.
Partition coefficient: n-octanol/Water:	Not available.
Auto-ignitiontemperature:	Not available.
Decomposition temperature:	Only size products start to decompose at 200oC
Viscosity:	Not applicable.
Explosive properties:	Not applicable.
Oxidizing properties:	Not applicable.

10. STABILITY AND REACTIVITY

10.1 High silica glass fibre and high silica glass fibre articles

Chemical Stability:	The products are stable.
Possibility of Hazardous reactions:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid:	When exposed to high temperatures may produce hazardous decom position products. Refer to protective measures listed in sections 7 and 8.
Incompatible materials:	None known.
Hazardous decomposition products:	In continuous combustion conditions, in addition to water vapor and CO2, small quantities of CO and NOx may be released from the combustion of the size. Other products may be released in limited quantities, depending on combustion conditions. This is why it is recommended to use high-temperature gas masks, when fighting intense fires (see paragraph 5).

11. TOXICOLOGICAL INFORMATION

Acute toxicity:	Not available
Irritation/Corrosion:	Not available
Sensitization:	Not available
Mutagenicity:	Not available
Carcinogenicity:	Not applicable. The International Agency for Research on Cancer (IARC) classes glass fiber into category 3 (No classification exists with regard to its carcinogenicity in humans.)
Reproductive Toxicity:	Not available.
Teratogenicity:	Not available.
Specific target organ toxicity (single exposure):	Not available.
Specific target organ toxicity (repeated exposure):	Not available.
Aspiration hazard:	Not available.

Handling glass fibres:
When glass fibres are chopped, milled or sanded they are cut perpendicular to strand length and no smaller diameters filaments are generated. Conversely, significant quantities of dust can be generated, which is why it is recommended to use personal protection. In dusts, also present in some products (chopped strands, milled fibres), some studies have shown very low quantities of particles with fibrous aspects (l/d>3), short (but nevertheless longer than 5 µm) and with an apparent diameter of under 3 µm. Quantities measured in work atmospheres are 50 to 100 times lower than all the limits fixed for respirable fibres, but when there is a high risk of dust generation it is strongly recommended to wear masks.

12. ECOLOGICAL INFORMATION

Toxicity:	Not available.	
Persistence and degradability:	Not available.	
Bio accumulative potential:	Not available.	
Mobility in soil	Soil/water partition coefficient (KOC):	Not available.
	Mobility:	Not available.

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Results of PBT and vPvB assessment

PBT: No.
vPvB : Not available.

Other adverse effects: No known significant effects or critical hazards.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods
High silica glass fibre and high silica glass fibre articles:

Depending on local regulations, glass fibre wastes can either be considered as inert waste or as common industrial waste. The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. As such they can be buried in landfills approved for these categories. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Packaging: Clean cardboard, wood, plastic (film) and packaging can be eliminated in units specific to these products (i.e. for recycling or use as fuels).

14. TRANSPORT INFORMATION

	ADR/RID	AND	IMDG	IATA
UN number	Not regulated	Not regulated	Not regulated	Not regulated
UN proper shipping name	-	-	-	-
Transport Hazard class	-	-	-	-
Packing group	-	-	-	-
Environmental hazards	No.	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.	Not applicable.
Additional information	None identified	None identified	None identified	None identified

Special precautions for user: Transport within user's premises - always transport in closed containers that are upright and secure.

15. REGULATORY INFORMATION

Continuous glass fiber is not classified as a "Dangerous Substance" or "Dangerous Preparation" according to EU-Directives 67/548/EEC, 1999/45/EC and amendments. Continuous glass fiber complies with all other national or local regulations regarding the use, transport, recycling, reuse, or disposal.
Glass fiber is considered as an article and is exempted from requirements of TSCA, REACH, EINECS, DSL, AICS, KECL and so on.

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16. OTHER INFORMATION

This Material Safety Data Sheet is in addition to the Product Specification file and other technical documents issued by Cepro International BV, but does not replace them.
The information given by this document is based on the best knowledge at the moment. It is given in good faith. Furthermore, user attention is drawn to the possible risks run when the product is used for any purpose other than the one for which it was designed.
This MSDS does not exempt users from knowing and applying the rules regulating their activities. Users assume full responsibility for applying the appropriate safety measures when the product is used.
For all additional information, users should contact their local Cepro International BV agent or the main supplier office at Cepro International BV.

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TECHNICAL DATA

Test			
1. Weave		12H Satin	
2. Selvage		Feathered (Feather length: 5-8 mm)	
3. Yarn, tex	*warp*	68 x 6 or 102x4	
	weft	68 x 6 or 102x4	
4. Width		900 mm	DIN EN 1773
5. Thickness*, mm		1,25 +/- 0,15	DIN EN ISO 5084
6. Weight, g/m^2		1100, +70/-50	DIN EN 12127
7. Thread count per cm	*warp*	19 +/- 1	DIN 53853
	weft	11 +/- 1	
8. Tensile strength, min. N/2,5 cm	*warp*	2000	EN ISO 13934.1
	weft	1500	
9. Content of main components %		SiO_2 96 +/- 1	Comp. Method
		Al2O3 3,5 +/- 0,5	PP - Q - K 05