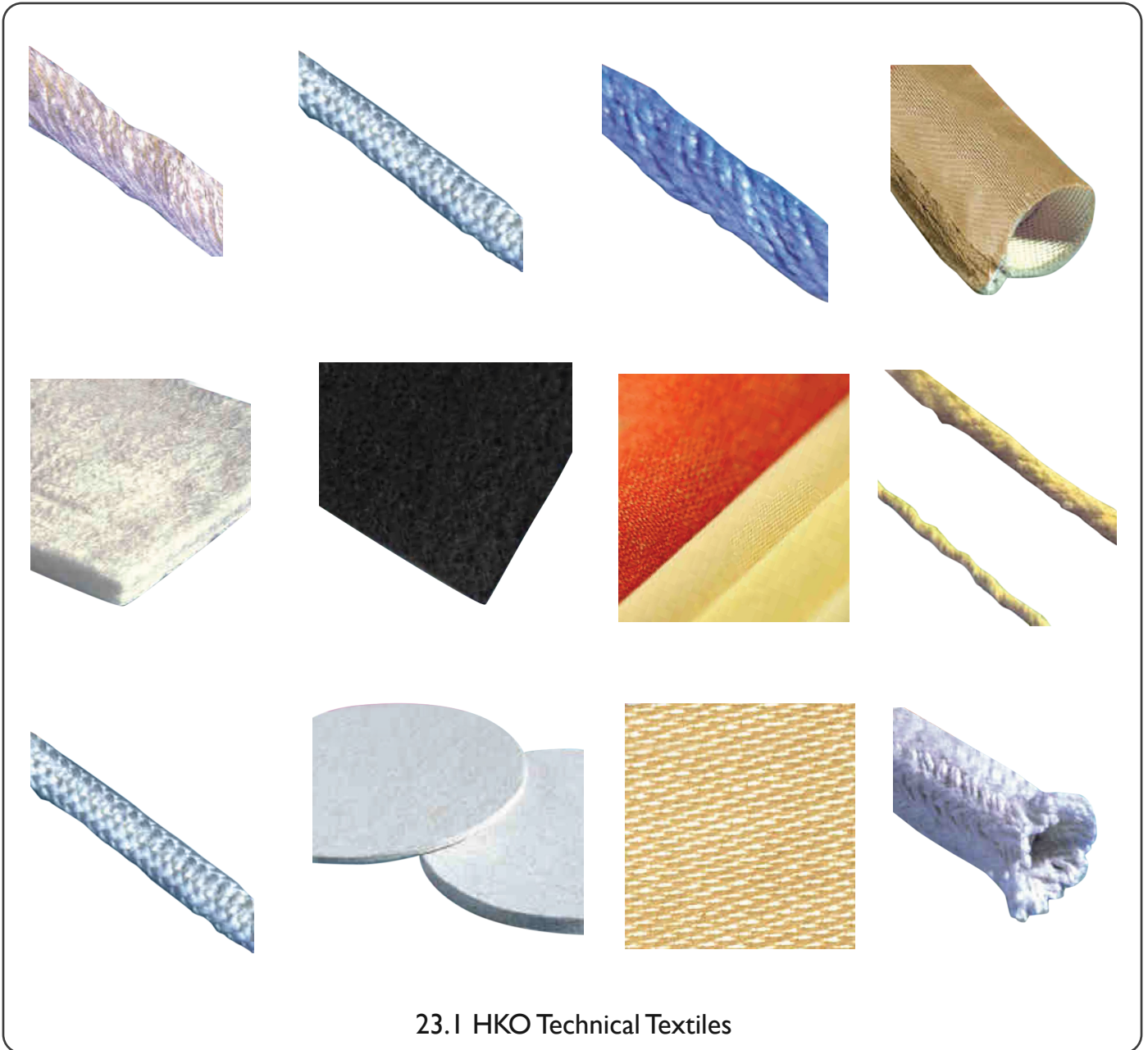


Saint-Gobain HKO Product Brochure

V2021JAN



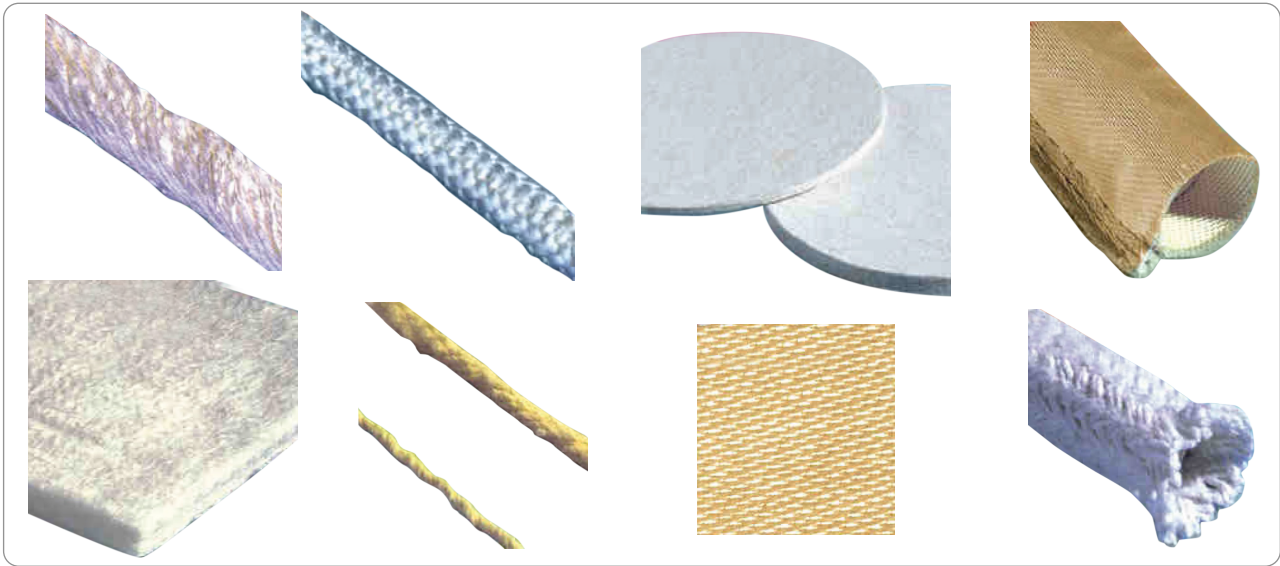
23.1 HKO Technical Textiles

Saint-Gobain Performance Plastics produces various polymer products like ptfе bearings, teflon slide bearing namely Rulon®, Meldin®, Hycomp, HKO and OmniSeal®. These high performance products are served to a number of industries like Steel, Chemical, Food and Beverages, Aerospace, Automotive etc. The advantage of these Performance Plastics is that they can be used to produce required products like bushings, liners, etc. with required dimensions.

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23.1 HKO Technical Textiles



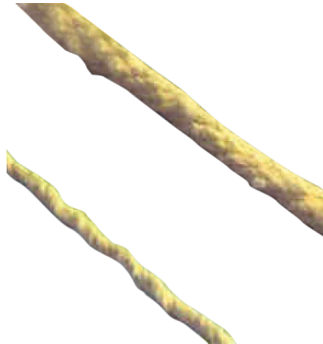
Industries it caters to

- Automobile Manufacturer
- Powerplant
- Shipbuilding

Product application

- Exhaust Gas System
- Turbocharger
- Duct System

23.1.1 HAKAMID®



The HKO has designed products from aramid fibers namely Hakamid® and Hakanit®. These are also available with other fibers mixed in it. These can sustain temperatures up to 350 °C.

Selection parameters

Parameters	Min	Max
Temperature		350 °C

23.1.2 HAKANIT®



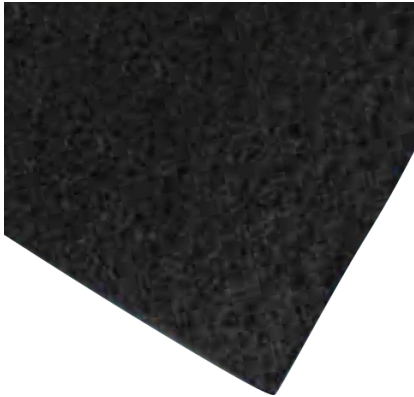
The HKO has designed products from aramid fibers namely Hakanit® and Hakamid®. These are also available with other fibers mixed in it. These can sustain up to 350 °C temperature.

Selection parameters

Parameters	Min	Max
Temperature		350 °C

23.1 HKO Technical Textiles (continued)

23.1.3 HAKANOX

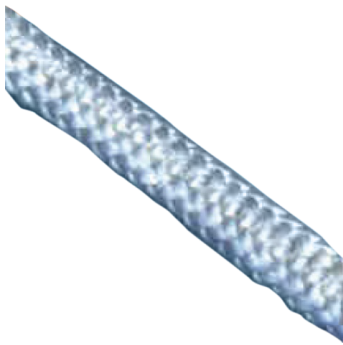


The HKO has developed polyacrylonitrile fibers products also known as (PAN) fibers named Hakanox. Hakanox products are thermally stabilized and oxidized. These Hakanox products are used in environments up to 450 °C and where acoustical and thermal insulation is a high priority.

Selection parameters

Parameters	Min	Max
Temperature		450 °C

23.1.4 THERMO-E-GLASS



The E-Glass product by HKO is the basis of all Thermo E-Glass products. It has very good electrical insulating properties and high thermal resistance.

Selection parameters

Parameters	Min	Max
Temperature		550 °C

23.1.5 BASALT



The HKO Basalt fibers are made by melting basaltic rocks. They possess an outstanding temperature range of -260 °C up to + 800 °C. Additionally, Basalt fibers are resistant to solvents, bases, and acids.

Selection parameters

Parameters	Min	Max
Temperature	(-260 °C)	800 °C

23.1.6 HAKOTHERM®-800



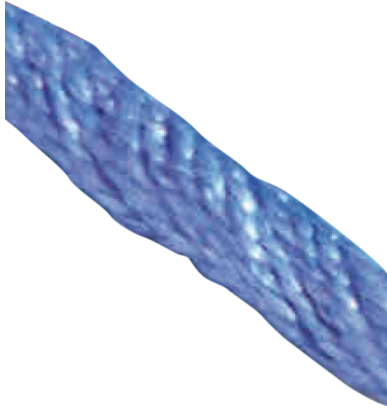
The HKO Hakotherm®-800 products are made from calcium silicate fibers. These products provide excellent protection in areas where there are chances of metal spillage or splashes or liquid metal splashes.

Selection parameters

Parameters	Min	Max
Temperature		750 °C

23.1 HKO Technical Textiles (continued)

23.1.7 SILONTEX®

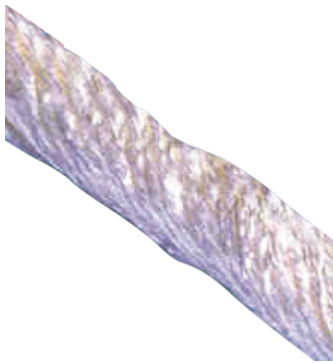


The HKO Silontex® products are made from calcium silicate fibers. These products provide excellent protection in areas where there are chances of metal splashes or spillage or liquid metal splashes.

Selection parameters

Parameters	Min	Max
Temperature		750 °C

23.1.8 HAKOTHERM®-1200



The HKO Hakotherm® 1200 and Silicatherm® products are made from continuous yarns of silicate fibers.

Selection parameters

Parameters	Min	Max
Temperature		1200 °C

23.1.9 SILICATHERM®



The HKO Silicatherm® and Hakotherm® 1200 products are made from continuous yarns of silicate fibers.

Selection parameters

Parameters	Min	Max
Temperature		1200°C

23.1.10 CMS-BIO



The HKO CMS-Bio products have calcium magnesium silicate fibers as a constituent material. These are free from hazardous rating because of their bio-soluble properties.

Selection parameters

Parameters	Min	Max
Temperature	550 °C	1260 °C

23.1 HKO Technical Textiles (continued)

23.1.11 HAKOPLAN-1100-BIO



The HKO Hakoplan-1100-Bio is mineral fiber soluble and bio-soluble material. It is an insulating board used steel industry.

Selection parameters

Parameters	Min	Max
Temperature		1100 °C

23.1.12 SILICATEX®



The HKO Silicatex® products are made from approximately 98.9 % pure silicate fibers.

Selection parameters

Parameters	Min	Max
Temperature		1200 °C