

# Insulation system for cement



# Insulation systems for the cement industry

Skamol has specialized in providing a wide range of insulation products for the cement industry.

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# Product comparison: Basic properties



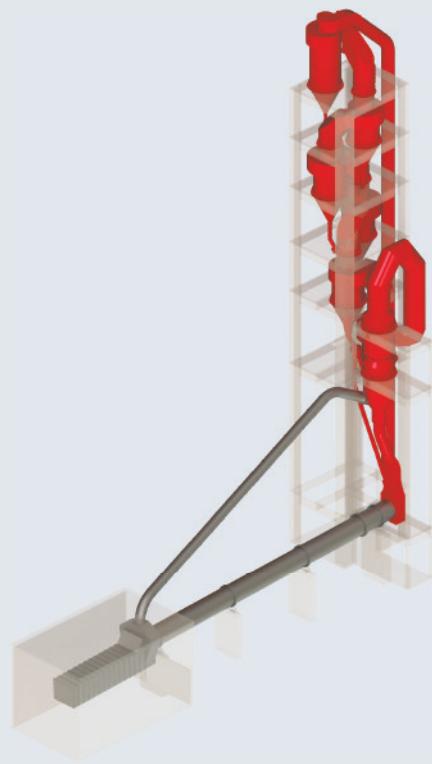
Products/Properties	Density	Max serv. temp.	CCS	Porosity	Thermal Conductivity W/mK							
					Kg/m³	°C	MPa	%	200°C	400°C	600°C	800°C
<b>Bricks</b>												
SkamoCeramic Poros	650	950	3.0	72			0.13		0.15	0.17	0.18	
SkamoCeramic M-Extra	950	1,000	18.0	60			0.32		0.34	0.35	0.37	
<b>Boards</b>												
SkamoCeramic S-Isol	225	1,000	2.6	91			0.08		0.10	0.12	0.14	
SkamoCeramic S-1100E	245	1,100	2.7	90			0.08		0.10	0.12	0.14	



# SkamoCeramic for cyclones

## SkamoCeramic:

- SkamoCeramic M-Extra (moler)
- SkamoCeramic Poros (moler)
- SkamoCeramic S-1100E (calcium silicate)
- SkamoCeramic S-Isol (calcium silicate)



The tendencies in the cement industry are moving towards an increasing use of alternative fuels, which poses some serious risks in cyclones. At the same time, focus remains on reducing energy consumption and

protecting the lining as well as the steel shell. Skamol has developed a technical insulation system, SkamoCeramic, specifically for cyclones:



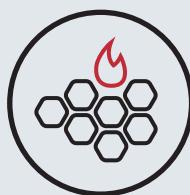
### Reduce energy costs

Provides a significant reduction in energy consumption



### Multiple fuel types

Enables the use of both conventional and alternative fuels



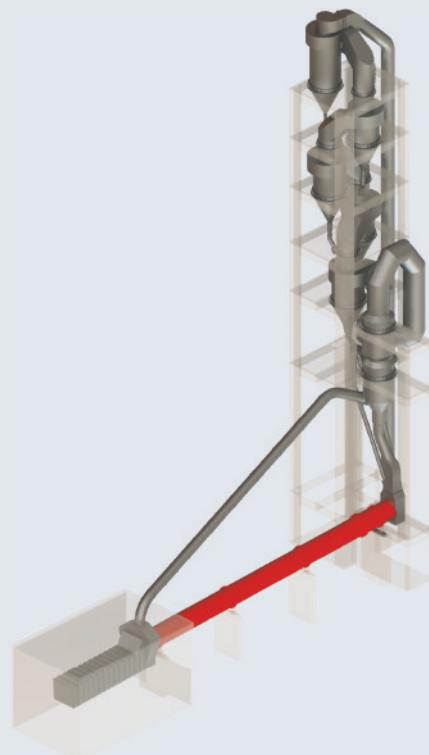
### Fast and simple mounting

Is quick and easy to install

# SkamoCeramic for rotary kilns

## SkamoCeramic:

- SkamoCeramic M-Extra (moler)

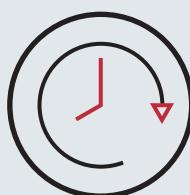


With the increasing demands set for energy consumption and CO2 emissions from cement plants, and the potential of significantly lowered maintenance costs, Skamol has

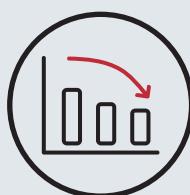
developed the SkamoCeramic M-Extra insulating brick. It has proven very efficient as back up insulation in dual-lining solutions in rotary kilns:



**High quality**  
Lowers risk of shell deformation



**Extend lifetime of your production equipment**  
Increases refractory life-span, minimising costly relining procedures

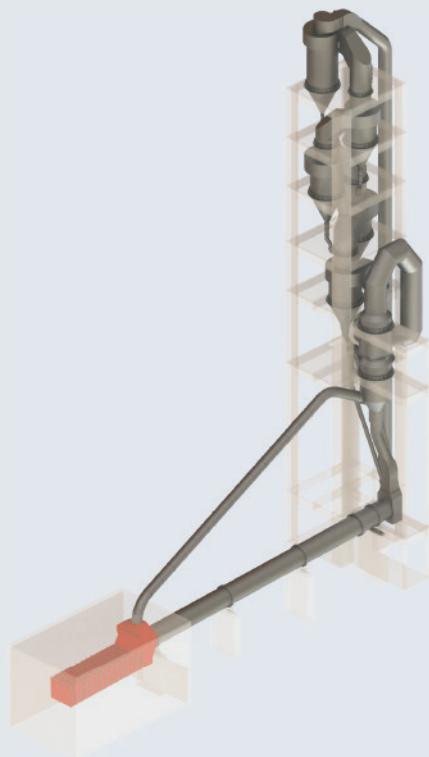


**Reduce energy costs**  
Reduces heat loss and energy consumption

# SkamoCeramic for clinker coolers & kiln hoods

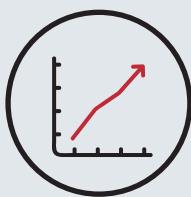
## SkamoCeramic:

- SkamoCeramic Poros (moler)
- SkamoCeramic S-1100E (calcium silicate)
- SkamoCeramic S-Isol (calcium silicate)



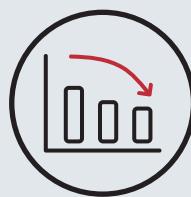
In cement clinker coolers and kiln hoods, dense refractory linings backed by insulation materials often result in an unnecessarily heavy construction.

Also, the lining is often at risk of serious alkali attacks. Benefit from our technical insulation system, SkamoCeramic:



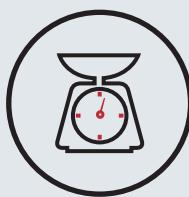
### Improve operation

Reduces steel shell temperature, and protects against thermal load



### Reduce energy costs

Ensures higher air-temperature from cooler to tertiary air duct, preserving energy and reducing production costs



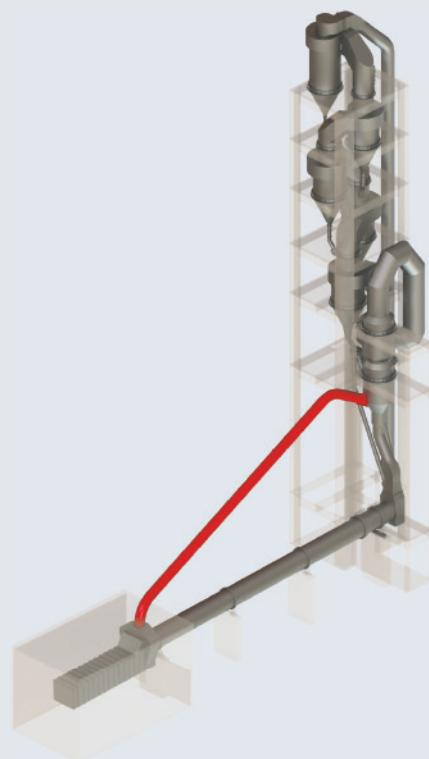
### Low weight

Reduces the overall weight of the lining, compared to regular lining solutions

# SkamoCeramic for tertiary air ducts

## SkamoCeramic:

- SkamoCeramic M-Extra (moler)
- SkamoCeramic Poros (moler)
- SkamoCeramic S-1100E (calcium silicate)
- SkamoCeramic S-Isol (calcium silicate)

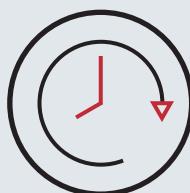


The air ducts are under constant stress from abrasive particles, and the hot face lining risks degradation over time. This can lead to increased service temperatures and

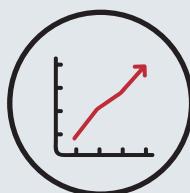
construction failure. Skamol has developed the technical insulation system, SkamoCeramic, to prolong the life span of tertiary air ducts:



**Reduce energy costs**  
Reduces shell temperature



**Extend lifetime of your production equipment**  
Bolsters the air ducts from the high-density abrasive content of the pipes



**Improve operation**  
Improves energy distribution

All in **one**



See more at [www.skamol.com](http://www.skamol.com)

**Skamol by Etex**

Hasselager Centervej 1, 8260 Viby, Denmark  
Tel.: +45 97 72 15 33

[www.skamol.com](http://www.skamol.com)

