

MATERIALS FOR CEMENT PLANTS

TECHNICAL SPECIFICATION

Over the last 100 years, the process of cement-production has changed from basic ring-furnaces to shaft-kilns and from wet rotary kilns to today's dry production lines. As a result of these process changes, the requirements for the installed refractory lining have changed as well.

REFRACTORY MATERIALS

Material, type	UPPER CYCLONES	LOWER CYCLONES	CALCINER	INLET CHAMBER	CONUS	TERTIARY AIR DUCT	BULLNOSE	BURNER	KLIN HOOD	COOLING ZONE	Service Temp.	CCS 110°C [MPa]	CCS 1000°C [MPa]	Bulk Density [kg/m³]	Al ₂ O ₃ %	SiO ₂ %	Fe ₂ O ₃ %	SIC %	Thermal conductivity @ 1000°C [W/mK]
TOGODUR S-ET Medium cement gunning mix	■				■	■				■	1500°C	50	70	2300	50	35	1	-	1,6
TOGODUR EX-S Low cement castable	■				■	■				■	1500°C	80	70	2300	45	45	1	-	2
TOGODUR EX-SE Low cement castable				■						■	1600°C	110	90	2500	60	22	1	-	2,1
TOGODUR SC10 Regular cement castable	■	■	■								1600°C	65	75	2500	50	30	2	9,8	2
TOGODUR SC10-T Regular cement gunning mix	■	■	■	■							1600°C	60	50	2500	50	32	2	9,8	2
TOGODUR EX-10SC Low cement castable		■	■								1600°C	90	100	2600	50	33	1	9,8	2,2
TOGODUR LC-10SCT Low cement gunning mix	■	■	■								1600°C	75	80	2600	50	37	1	9,8	2,2
TOGODUR EX-ASe 4Zr Low cement castable				■			■	■	■		1700°C	120	85	2800	82	10	1	4	2,4
TOGODUR ST-TC Medium cement gunning mix							■	■			1700°C	60	85	2750	82	8	1	-	2,3
TOGO KX 40 Fireclay brick	■	■	■		■					■	1500°C	60	60	2200	40	45	1	0	1,4

INSULATION

Material, type	Service Temperature	CCS 110°C [MPa]	CCS 1000°C [MPa]	Bulk Density [kg/m³]	Al ₂ O ₃ %	SiO ₂ %	Fe ₂ O ₃ %	SIC %	Thermal conductivity @ 1000°C [W/mK]
TOGODUR IZO-SP Thermal insulation castable	1250°C	8	5	1200	36	39	5	-	0,37
TOGODUR IZO-SPT Thermal insulation gunning mix	1250°C	8	5	1200	36	39	5	-	0,37
TOGO ISO 450 Thermal insulating bricks	1050°C	2	1,5	450	15	60	-	-	0,18

The origins of the company date back to 1991 when we started as a small manufacturing – trading company. We have over 30 years of experience in the field of refractory materials. We deal mainly with the production and engineering of refractory materials. We are a company active in export, our production and sales are growing from year to year.

Our constant care for the quality of production and management processes resulted in year 2000 with obtaining the ISO 9001 certification in 2012, we have obtained OHSAS 18001, as evidence of concern for safety and health at work and the international standard for environmental management systems ISO 14001. Much attention is devoted to the development activities, such as project Firecon under the auspices of the European initiative Eureka, various development projects in cooperation with external research institutes, and of course our own laboratory.



TOGO d.o.o.,
production, sale, engineering and design of refractory materials

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Cement Industry

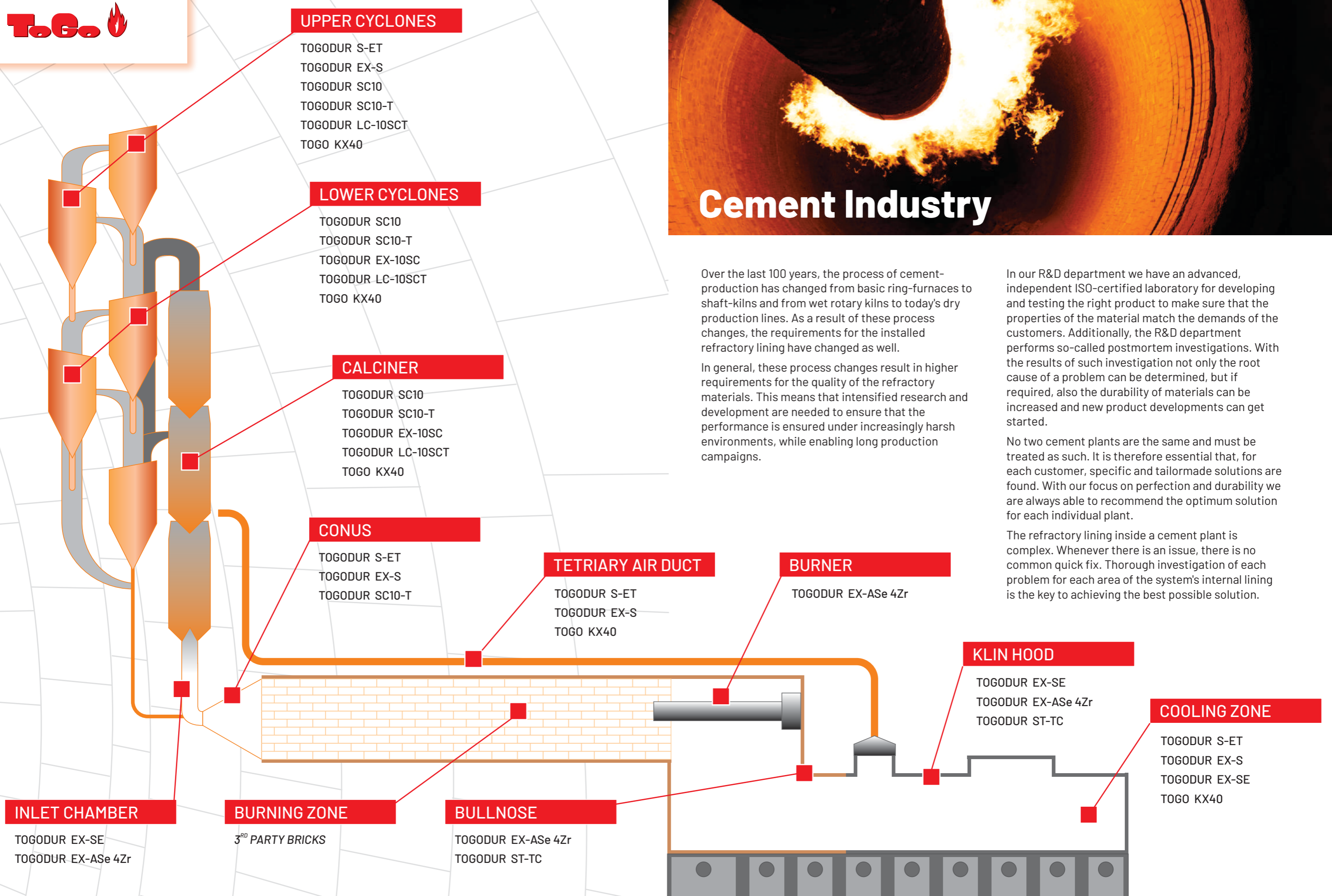
We supply complete refractory solutions for all process stages (preheating system, rotary kiln and grate cooler) in the cement production process.



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UPPER CYCLONES

- TOGODUR S-ET
- TOGODUR EX-S
- TOGODUR SC10
- TOGODUR SC10-T
- TOGODUR LC-10SCT
- TOGO KX40

LOWER CYCLONES

- TOGODUR SC10
- TOGODUR SC10-T
- TOGODUR EX-10SC
- TOGODUR LC-10SCT
- TOGO KX40

CALCINER

- TOGODUR SC10
- TOGODUR SC10-T
- TOGODUR EX-10SC
- TOGODUR LC-10SCT
- TOGO KX40

CONUS

- TOGODUR S-ET
- TOGODUR EX-S
- TOGODUR SC10-T

TETRIARY AIR DUCT

- TOGODUR S-ET
- TOGODUR EX-S
- TOGO KX40

BURNER

- TOGODUR EX-ASe 4Zr

KLIN HOOD

- TOGODUR EX-SE
- TOGODUR EX-ASe 4Zr
- TOGODUR ST-TC

COOLING ZONE

- TOGODUR S-ET
- TOGODUR EX-S
- TOGODUR EX-SE
- TOGO KX40

INLET CHAMBER

- TOGODUR EX-SE
- TOGODUR EX-ASe 4Zr

BURNING ZONE

3RD PARTY BRICKS

BULLNOSE

- TOGODUR EX-ASe 4Zr
- TOGODUR ST-TC