

# Promat

## PROMATON®

### 23S-26S-23T-26T-28T-30T

PROMATON® lightweight refractory bricks are the result of long years of development and application technology. A combination of experience, high-quality raw materials and economical production techniques makes this material suitable for use in high performance, lightweight constructions in modern industrial and furnace plants.



#### ADVANTAGES AND PROPERTIES

- Use of high-quality raw materials
- Dimensionally stable, sanded on all sides
- Low thermal shrinkage
- High compressive strength
- Low thermal conductivity
- Use on the fire side
- High thermal shock resistance
- Low bulk density, thus low heat storage
- Easy to work

#### WORKING AND PROCESSING

The ready-to-use ALSIFLEX® / PROMACRET® bonding agents are stirred without adding water and processed in a thin layer of maximum 1-2 mm thickness. The mortar joints or rather the bonding agent joint forms a homogeneous entity with the brick across the complete temperature range. ALSIFLEX® / PROMACRET® bonding agents are an ideal assembly aid for bonding insulating materials, concrete shaped parts and heavy refractory bricks. Their pliability, high adhesion strength, rapid cold-hardening, chemical resistance and high fire resistance offer special advantages.

#### AREAS OF APPLICATION

- Combustion chamber lining up to 1600 °C and above
- Rapid roller kilns for china
- Protective gas furnaces for hot treatment of steel
- Chamber furnaces for salt glazing
- Insulating layer in torpedo ladles
- Rear lining for glass furnaces
- General industrial furnace construction





## TECHNICAL DATA

Product name		23S	23T	26S	26T	28T	30T	
Classification temperature		1260	1260	1430	1430	1540	1650	°C
Bulk density $\rho$		500	650	830	800	880	1030	kg/m <sup>3</sup>
Cold compression strength DIN EN 1094-4		1,0	1,2	3,5	2,0	2,5	2,5	N/mm <sup>2</sup>
Permanent linear charge, DIN EN 1094-6 after 24h at		<0,5 1260	<0,5 1260	<2 1430	<2 1430	<2 1540	<2 1650	% °C
Thermal conductivity $\lambda$ DIN EN 993-14 (hot wire method)								
	400 °C	0,185	0,261	0,270	0,330	0,318	0,39	W/mK
	600 °C	0,202	0,274	0,275	0,338	0,327	0,42	W/mK
	800 °C	0,248	0,320	0,299	0,360	0,338	0,43	W/mK
	1000 °C	0,325	0,384	0,341	0,385	0,364	0,44	W/mK
	1200 °C	-	-	-	0,420	0,397	0,48	W/mK
Chemical analysis								
	Al <sub>2</sub> O <sub>3</sub>	46	50	46	55	67	73	%
	SiO <sub>2</sub>	50	45	48	41	29	24	%
	Fe <sub>2</sub> O <sub>3</sub>	0,8	1,15	1,18	0,67	0,6	0,5	%
	CaO	0,2	0,66	1,03	0,5	0,24	0,22	%

Promat contains the right to change without notice the properties and values of all products. The given technical values are obtained in specific conditions and are average and indicative. In case of any doubt if these properties and/or values are matching the application requirements, please contact Promat for advise.

### PROMATON® 23S

Dimensions	pieces/box	boxes/pallet
230 x 114 x 65 mm	16	32
230 x 114 x 76 mm	20	24
250 x 124 x 65 mm	20	24
250 x 124 x 76 mm	20	24

### PROMATON® 23T

Dimensions	pieces/pallet
230 x 114 x 65 mm	668
230 x 114 x 76 mm	560

### PROMATON® 26S

Dimensions	pieces/box	boxes/pallet
230 x 114 x 65 mm	16	32
230 x 114 x 76 mm	20	24
250 x 124 x 65 mm	20	24
250 x 124 x 76 mm	20	24

### PROMATON® 26T

Dimensions	pieces/pallet
230 x 114 x 65 mm	668
230 x 114 x 76 mm	560

### PROMATON® 28T

Dimensions	pieces/pallet
230 x 114 x 65 mm	668
230 x 114 x 76 mm	560