

Technical Data Sheet

Cast Basalt

Time-tested and economical in cases of

- strong abrasive wear
- transport of medium to coarse materials
- service temperature up to 350°C

Physical Properties

Bulk density	2,9 - 3,0	g/cm ³
Porosity	0	%
Hardness to Mohs	~ 8	
Compressive strength	450 - 550	MPa
Flexural strength	40 - 50	MPa
Coefficient of expansion	$6 - 8 \times 10^{-6}$	1/K
Thermal conductivity	1,1 - 1,6	W/mK
Max. operating temperature	300 - 350	°C

Chemical Composition

Components	Mean Values (Weight-%)
SiO ₂	46
Al ₂ O ₃	12
Fe ₂ O ₃	6
FeO	7
MgO	10
CaO	11
Others	8

Chemical Resistance

Resistant to corrosion; resistant to almost all acids and alkalis (except HF-compounds); usable for moist and chemically aggressive bulk materials and operating conditions.

All values were determined on test bodies and are mean values from standard test methods and therefore do not constitute guaranteed properties for construction items of all kinds, linings etc. in the sense of assured product values; in cases of doubt, pilot trials and/or item tests are recommendable

