Technical Data Sheet

SC-WN Ker 23 WST 80 HT E-Rev 02

SC-WearStop® C 80 HT / M 80 HT

valid as of: 01.01.2017

Chemically bound ceramics on the basis of Siliconcarbide

Physical Properties

Bulk density:			2.8	g/cm³
Hardness to Mohs:			~ 8	
Maximum particle size:			3	mm
Compressive strength:		days:	75 100 120	N/mm² N/mm² N/mm²
Flexural strength:	after 1 after 7 after 28	days:	7 13 20	N/mm² N/mm² N/mm²
Coefficient of expansion:			7,0 x 10 ⁻⁶	1/K
Thermal conductivity:			5,0	W/mK
Maximum operating temperature:			1.200	°C
Shrinkage during drying process:			~ 0,1-0,3	%

Chemical Composition

Components	Mean Values (Weight-%)		
CaO	6		
Al_2O_3	15		
SiC	75		
SiO ₂	4		
Others	0,1		

Additives

Steel fibres	4,5
Water	5 - 6

Wear Resistance

DIN 52 108 Böhme-disc	1,0-1,5	cm ³ /50 cm ²
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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.

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