Technical Data Sheet

SC-WN Ker 15 WST 40 E-Rev 01

SC-WearStop® C 40 / M 40

valid as of: 01.01.2017

Chemically bound ceramics on the basis of Bauxite

Physical Properties

Bulk density:			2.8	g/cm³
Hardness to Mohs:			~ 7-8	
Maximum particle size:			4	mm
Compressive strength:		days:	130 185 225	N/mm² N/mm² N/mm²
Flexural strength:	after 1 after 7 after 28	•	18 28 30	N/mm² N/mm² N/mm²
Coefficient of expansion:			1,0 x 10 ⁻⁵	1/K
Thermal conductivity:			1,5	W/mK
Maximum operating temperature:			400	°C
Shrinkage during drying process:			< 0,1	%

Chemical Composition

Components	Mean Values (Weight-%)		
$Al_2O_3 + TiO2$	50		
CaO	20		
SiO ₂	25		
Others	5		
Additives			
Charl Elana	4 F		

Α

Steel fibres	4,5
Water	5,5 – 6,0

Wear Resistance

DIN 52 108 Böhme-c	lisc ¹⁾	4	cm ³ /50 cm ²
ASTM C-704 - 94 ²⁾	(However, blast angle 30°)	4.7	cm³

¹⁾ neutrally determined by the State Material Test Authority of the University of Kaiserslautern

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.

²⁾ neutrally determined by the publicly appointed and sworn expert, Engineering Office O. Thelen, Melsbach