

Data-sheet OVERVIEW

General:

The original materials for manufacturing our products are exclusive raw materials mixed with special binders. In this way produced products presents - after sintering - several advantages for best conditions using in the glass industry.

In example:

- excellent glass surface
- optimum gas permeability
- excellent reproducibility of relief
- isotropic and homogeneous grain structure
- high temperature resistance
- pasting not required
- outstanding resistance to thermal shocks
- long service life
- constantly good surface finish of glasses
- good storing capacity for water
- excellent slide properties

	SC 150	SC 145	SC 240 *	SC 340 *	SC 440 #
raw material basis	sintered carbon	sintered carbon	sintered carbon	sintered carbon	sintered carbon
density	1.15 g/cm <sup>3</sup>	1.25 g/cm <sup>3</sup>	≈ 1.35 g/cm <sup>3</sup>	1.35-1.50 g/cm <sup>3</sup>	≈ 1.30 g/cm <sup>3</sup>
porosity (total)	50 %	45 %	40 %	35 - 45 %	40 %
hardness	≈ 65 Shore	≈ 70 Shore	≈ 70 Shore	≈80 Shore	≈ 70 Shore
compressive strength	≈ 30 N/mm2	≈ 40 N/mm2	≈ 40 N/mm2	≈ 50 N/mm2	≈ 40 N/mm2
thermal conductivity	≈ 0.18 W/K.m	≈ 0.18 W/K.m	≈ 0.25 W/K.m	≈ 0.35 W/K.m	≈ 0.5 W/K.m
recomm. max. application temperature	350°C oxygen 2500°C inert	350°C oxygen 2500°C inert	600°C oxygen 2000°C inert gas	500°C oxygen 2500°C inert gas	600°C oxygen 2000°C inert gas
dimensions - cylinder: - blocks / plates:	diam. < 500 mm high < 320 mm  length <400 mm width <400 mm high <200 mm	diam. < 300 mm high < 200 mm  length < 300 mm width < 300 mm high < 200 mm	diam. < 300 mm high < 200 mm  length < 300 mm width < 300 mm high < 200 mm	diam. <300 mm high <200 mm  length <300 mm width <300 mm high <200 mm	diam. <250 mm high <200 mm  length <400 mm width <400 mm high <100 mm
applications	<b>hollow glass moulds</b> hand- and machine made, H28, Olivotto etc. spreading moulds, stem former, bottom shears, <b>drag rolls, straightening rolls,</b> gob funnel	spread moulds <b>drag rolls</b> <b>straightening rolls</b> transport vessels gob funnel	<b>clappers</b> centrifugal drag rolls straightening rolls <b>vessels</b> <b>funnels</b>	<b>drag rolls</b> <b>straightening rolls</b> <b>hot-end</b>	
note * impregnated # app. 10% antioxidants	SC 150/SC 145: Higher sizes will be stucked together SC 145: special experiences in machine made manufacturing of <b>lead crystal</b> , also <b>borosilicate</b>		SC 240 / SC340 : special for <b>tubing</b> , low thermal conductivity SC 340: very strong material with glancing surface; Shore: 80		

# SICATEC GmbH

Beseler Straße 100

D-50354 Hürth

Telefon +49 (0)2233 965 477

Telefax +49 (0)2233 965 476



[info@sicatec.de](mailto:info@sicatec.de)

[www.sicatec.de](http://www.sicatec.de)