CHOTT DURAN®	TECHNICAL DATA SHEET	INFORMATION
<b>Conformity with Standards</b> DURAN <sup>®</sup>	<ul> <li>ISO 3585 Borosilicatglass 3,3</li> <li>glass type 1, neutral glass as per USP 27, EP, DAB 10 (as it is hydrolytic class 1 – see below)</li> <li>suitable for foodstuff</li> </ul>	
Chemical Properties		
Chemical Composition	81% Si O <sub>2</sub> 13% B <sub>2</sub> O <sub>3</sub> 4% Na <sub>2</sub> O/K <sub>2</sub> O 2% Al <sub>2</sub> O <sub>2</sub> no additive of heavy metal	
Classes of Chemical Resistance	- hydrolytic resistance - acid resistance - alkali resistance	class 1, DIN ISO 720 class 1, DIN 12116 class 2, ISO 695
Physical Properties		
Transformation Temperature Coefficient of Expansion $\alpha$ (20 until 300°C) Density at 25°C Thermal Conductivity $\lambda$ at 90°C Coefficient of Elasticity Specific Heat Capacity cp (20 until 100°C) Stressoptical Coefficient K	<ul> <li>525 [°C]</li> <li>3,3 [10<sup>6</sup>/K<sup>-1</sup>]</li> <li>2,23 [g/cm<sup>3</sup>]</li> <li>1,2 W m⋅K</li> <li>63 [10<sup>3</sup>N/mm<sup>2</sup>]</li> <li>0,8 [J/g⋅K]</li> <li>4,0 [10<sup>-6</sup>mm<sup>2</sup>/N]</li> <li>transparent in the spectral rational from 310 to 2200 nm light we (please refer to Duran<sup>®</sup> laboration)</li> </ul>	ange ave length, with minimal absorption tory glassware catalogue)
Instructions for use		
Max. working temperature Max. negativ temperature Max. temperature variation Use in microwave oven	<ul> <li>Duran<sup>®</sup> laboratory glass generally 500°C</li> <li>Duran<sup>®</sup> volumetric products (volumetric flasks, cylinders etc.) 180°C</li> <li>-70°C</li> <li>ΔT 100K</li> <li>Yes, possible</li> </ul>	
Use under pressure or vacuum	No, unless clearly stated in catalogue for product in question. Make sure that product is in immaculate condition.	
Cleaning of Duran <sup>®</sup> labororatory glass in alkali detergent	- max. residence time 30 min - max. temperature during cle	utes aning process 70°C
Note: For further detailed technical information and instructions of use, please refer to the DURAN Labglass catalogue or to our website www. schott.com/duran.		

SCHOTT AG Labware E-Mail: info.duran@schott.com - www.schott.com/duran

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## SCHOTT D U R A N<sup>®</sup>