

BHS tabletop AG
Ludwigsmühle 1
95100 Selb

Deutschland

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Bearbeiter KK

Telefon +49 (0) 9287-95604-95

Telefax +49 (0) 9287-95604-11

e-mail karola.kiessling@imerys.com

Certification for authorities and institutions

Porcelain / Fine China

Hard past porcelain bodies of Imerys Tableware result in Porcelain whiteware of highest quality specified herein typically as follows:

Technical Specification

Process and Composition

Composition before firing	50 % kaolin
	25 % quartz
	25 % feldspar

Bodies are designed out of natural raw materials and no lead or other heavy metals are added.

Mineral composition of fired body	25 % mullite,
	5 % quartz,
	70 % glassy phase

Chemical analysis (typ.) of fired body	SiO ₂	68,50	%
	Al ₂ O ₃	26,10	%
	Fe ₂ O ₃	0,50	%
	TiO ₂	0,10	%
	CaO	0,10	%
	MgO	0,18	%
	Na ₂ O	0,20	%
	K ₂ O	3,90	%

Firing Conditions

firing temperature of body and glaze	1380 - 1440 °C
Decor firing temperature	inglaze 1180 - 1280 °C
	onglaze 880 - 920 °C

Physical Properties

Density	$\geq 2,40 \text{ g/cm}^3$
Water absorption	$\leq 0,1 \%$
Bending strength	70 - 80 MPa unglazed 90 - 100 MPa glazed
Chipping resistance	0,20 - 0,60 Nm (formdepending) DIN EN 12980
Thermal shock resistance	$\Delta T \sim 200 - 280 \text{ K}$ (formdepending) DIN EN 1183
Whiteness	73 %
Color	$L^* \cong 89$ $a^* \cong -1,7$ $b^* \cong +1,4$ DIN 6174
Dishwashing resistance	resistant, DIN EN 12875-1 / 2
Leachability of lead and cadmium	Test follows German DIN 51032, DIN EN 1388/1+2, ISO 6486/1+2; European directive 2005/31/EG 84/500/EWG and regulations of USA/FDA and other countries
Microwave resistance	concerning whiteware and decoration without metal resistant, DIN EN 15284
Hardness of Glaze	660 – 750 Vickers Hardness 6 - 7 Mohs Hardness

Remark: The results are only linked to the samples tested

Imerys Tableware Deutschland GmbH
- Zentrallabor Selb -

i.V. Karola Kießling