

## Physical and chemical Characteristics for MICROBIT ZTA

PROPERTY [test method]	UNIT of MEASUREMENT	RANGE	REMARKS
<b>Specific gravity</b> IOS05/02/07 <sup>(*)</sup>	g/cm <sup>3</sup>	3.80 ± 0.10	(*1) – Test performed by Laboratorio Chimico Ce.Ri.Col. (Colorobbia Consulting s.r.l.)
<b>Rockwell 45 N hardness</b> IOS14/02/07 <sup>(*)</sup>	-	≥ 75	
<b>Water Absorption</b> IOS29/02/07 <sup>(*)</sup>	vol%	not detectable	(*2) - Internal test method of Industrie Bitossi S.p.A.
<b>TYPICAL DATA</b>			NOTICE - The values in the chart are determined on the basis of the sampling procedures laid down in the production Quality Assurance procedures. These procedures can vary depending on shape, design and production process of the specific supplied material. Contact Industrie Bitossi S.p.A. for any further information. Typical data are for reference only and don't determine the material release
<b>Significant components:</b>	wt%		
Al <sub>2</sub> O <sub>3</sub>		83	
ZrO <sub>2</sub> + HfO <sub>2</sub>		6	
SiO <sub>2</sub>		8	
(XRF) UNI EN ISO 12677 <sup>(*)</sup>			
<b>Bulk density</b> IOS05/02/07 <sup>(*)</sup>	g/cm <sup>3</sup>	≥ 2.15	
<b>Vickers HV1 hardness</b> IOS31/02/07 <sup>(*)</sup>	kgf/mm <sup>2</sup>	≥ 1100	
<b>Sphericity</b>	-	≥ 0.95	
<b>Colour</b>	-	white-ivory	