

# PORCELAIN BODY FOR JIGGERING AND CASTING

## PM410B

<b>FIRING TEMPERATURE</b>	1250 - 1300 °C reducing
<b>FIRING COLOUR</b>	white
<b>FORM OF DELIVERY</b>	spray dried granulate

### TYPICAL PROPERTIES

#### CHEMICAL ANALYSIS - Fired basis (mass %)

SiO <sub>2</sub>	69,0
Al <sub>2</sub> O <sub>3</sub>	25,1
TiO <sub>2</sub>	0,07
Fe <sub>2</sub> O <sub>3</sub>	0,47
MgO	0,20
CaO	0,06
Na <sub>2</sub> O	0,23
K <sub>2</sub> O	4,50
L.O.I. 1000°C	6,50

#### PHYSICAL PROPERTIES

Moisture content (%)	3,1
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#### PARTICLE SIZE DISTRIBUTION - Wet screening (mass %)

> 63 µm	0,9
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#### CASTING DATA

Slip density (g / l)	1760
Gießfix W162/10 (%)	0,01 - 0,03
Gießfix PT88 or Verflüssigungsmittel CJ (%)	0,01 - 0,015
Casting rate (mm) 10 min	3,3

#### CERAMIC PROPERTIES – Extruded bars

Modulus of Rupture 110°C (MPa)	2,6
Drying Shrinkage 110°C (%)	4,2
<b>Firing cycle</b>	<b>1300 °C / 4 h reducing</b>
Firing Shrinkage (%)	9,8 [ ± 0,5 ]
Total Shrinkage (%)	13,6
Water absorption (%)	< 0,20
Fired Bending Strength (MPa)	68
Colour (CIE Lab, C/2°)	
L*	85,7
a*	- 1,0
b*	+ 3,0
Thermal Expansion ( ×10 <sup>-7</sup> K <sup>-1</sup> ) 30 – 600°C	75

#### STANDARD PACKAGING

silob truck, big bag on pallets
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These values do not represent a specification. The data quoted are determined by the use of Imerys Standard Test Methods, copies of which will be supplied on request. Every precaution is taken in production to ensure the products conform to our published data. Since the products are based on naturally occurring materials, we reserve the right to change these data should it become necessary. Sales are in accordance with our "Conditions of Sale", copies of which will be supplied on request.

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#### 4th Edition

This version supersedes the version dated August 2009



#### Production Site

Imerys Tableware  
Deutschland GmbH  
Plant Schmelitz  
Äußere Regensburgerstr. 121  
95643 Tirschenreuth  
Germany

#### Commercial Office

Imerys Tableware  
Deutschland GmbH  
Ludwigmühle 13  
95100 Selb  
Germany

Tel. +49 (0)9287 95604-0  
Fax: +49 (0)9287 95604-13

#### Email

info@imerys-ceramics.com

#### Website

[www.imerys-ceramics.com](http://www.imerys-ceramics.com)

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