PC010B

FORM OF DELIVERY Spray dried granulate TYPICAL PROPERTIES CHEMICAL ANALYSIS - Fired basis (mass %) SiO₂ 65.9 Al₂O₃ 27.2 TiO₂ 0.14 Fe₂O₃ 0.60 MgO 0.54 CaO 0.70 Na₂O 1.06 K₂O 3.63 LO.I. 1000°C 7.5 PHYSICAL PROPERTIES Moisture content (%) 5.0 LASER Particule size – Laser Mastersizer 2000 – D50% (μm) 6.9 Wet screening 0.063 mm (mass %) 0.3 CASTING DATA Slip density (g/l) 1720 Deflocculant denand*: Dolaflux B11 (mass %) 0.02 Cassting rate : Wall thickness after 10 minutes (mm) 3.3 [+/- 0.5] *Demand of deflocculant depends on water quality CERAMIC PROPERTIES casted bars Modulus of Rupture 110°C (MPa) 1.9 Drying Shrinkage (%) 1.7 Firing cycle : 1220°C Oxidizing Firing Shrinkage (%) 1.	FIRING TEMPERATURE	1220°C c	x. / 1280°C red.	
TYPICAL PROPERTIES CHEMICAL ANALYSIS - Fired basis (mass %) SiO ₂ 65.9 Al ₂ O ₃ 27.2 TiO ₂ 0.14 Fe ₂ O ₃ 0.60 MgO 0.54 CaO 0.70 Na ₂ O 1.06 K ₄ O 3.63 LO.I. 1000°C 7.5 PHYSICAL PROPERTIES Moisture content (%) 5.0 LASER Particule size – Laser Mastersizer 2000 – D50% (μm) 6.9 Wet screening > 0.063 mm (mass %) 0.3 CASTING DATA Slip density (g/l) 1720 Deflocculant demand*: Dolaflux B11 (mass %) 0.02 Casting rate : Wall thickness after 10 minutes (mm) 3.3 [+/- 0.5] *Demand of deflocculant depends on water quality CERAMIC PROPERTIES casted bars Modulus of Rupture 110°C (MPa) 1.9 Drying Shrinkage (%) 11.7 Firing cycle : 1220°C Oxidizing Firing Shrinkage (%) 11.7 Water absorption (%) 0.20 Fired Bending Strength (MPa) 85 Colour (CIELab, D65/10°) L 84.56 a* 0.49 b* 8.13	FIRING COLOUR		White	
CHEMICAL ANALYSIS - Fired basis (mass %)	FORM OF DELIVERY	Spray o	lried granulate	
SiO2 SiO3 27.2 Al2O3 27.2 FiO2 0.14 Fe2O3 0.60 MgO 0.54 CaO 0.70 Na2O 1.06 K2O 3.63 L.O.I. 1000°C 7.5 PHYSICAL PROPERTIES Moisture content (%) 5.0 LASER Particule size – Laser Mastersizer 2000 – D50% (μm) 6.9 Wet screening > 0.063 mm (mass %) 0.3 CASTING DATA Sibil density (g/l) 1720 Deflocculant demand*: Dolaflux B11 (mass %) 0.02 Casting rate : Wall thickness after 10 minutes (mm) 3.3 [+/- 0.5] *Demand of deflocculant depends on water quality CERAMIC PROPERTIES casted bars Modulus of Rupture 110°C (MPa) 1.9 Drying Shrinkage 110°C (%) 1.7 Firing cycle : 1220°C Oxidizing Firing Shrinkage (%) 10.0 [+/- 0.5] Fired Bending Strength (MPa) 85 Colour (CIELab, D65/10°) L 84.56 a* 0.49 b* 8.13	TYPICAL PROPERTIES			
SiO2 SiO3 27.2 Al2O3 27.2 FiO2 0.14 Fe2O3 0.60 MgO 0.54 CaO 0.70 Na2O 1.06 K2O 3.63 L.O.I. 1000°C 7.5 PHYSICAL PROPERTIES Moisture content (%) 5.0 LASER Particule size – Laser Mastersizer 2000 – D50% (μm) 6.9 Wet screening > 0.063 mm (mass %) 0.3 CASTING DATA Sibil density (g/l) 1720 Deflocculant demand*: Dolaflux B11 (mass %) 0.02 Casting rate : Wall thickness after 10 minutes (mm) 3.3 [+/- 0.5] *Demand of deflocculant depends on water quality CERAMIC PROPERTIES casted bars Modulus of Rupture 110°C (MPa) 1.9 Drying Shrinkage 110°C (%) 1.7 Firing cycle : 1220°C Oxidizing Firing Shrinkage (%) 10.0 [+/- 0.5] Fired Bending Strength (MPa) 85 Colour (CIELab, D65/10°) L 84.56 a* 0.49 b* 8.13	CHEMICAL ANALYSIS - Fired basis (mass %)		
Fig. 203 0.60 MgO 0.54 CaO 0.70 Na ₂ O 1.06 K ₂ O 3.63 L.O.I. 1000°C 7.5 PHYSICAL PROPERTIES Moisture content (%) 5.0 LASER Particule size – Laser Mastersizer 2000 – D50% (μm) 6.9 Wet screening > 0.063 mm (mass %) 0.3 CASTING DATA Slip density (g/l) 1720 Deflocculant demand*: Dolaflux B11 (mass %) 0.02 Casting rate : Wall thickness after 10 minutes (mm) 3.3 [+/- 0.5] *Demand of deflocculant depends on water quality CERAMIC PROPERTIES casted bars Modulus of Rupture 110°C (MPa) 1.9 Drying Shrinkage 110°C (%) 1.7 Firing cycle : 1220°C Oxidizing Firing Shrinkage (%) 10.0 [+/- 0.5] Total Shrinkage (%) 11.7 Water absorption (%) <0.20 Fired Bending Strength (MPa) 85 Colour (CIELab, D65/10°) L 84.56 a* 0.49 b* 8.13	SiO ₂	,	65.9	
Fe ₂ O ₃ 0.60 MgO 0.54 CaO 0.70 Na ₂ O 1.06 K ₂ O 3.63 L.O.I. 1000°C 7.5 PHYSICAL PROPERTIES Moisture content (%) 5.0 LASER Particule size – Laser Mastersizer 2000 – D50% (μm) 6.9 Wet screening > 0.063 mm (mass %) 0.3 CASTING DATA Slip density (g/l) 1720 Deflocculant demand*: Dolaflux B11 (mass %) 0.02 Casting rate : Wall thickness after 10 minutes (mm) 3.3 [+/- 0.5] *Demand of deflocculant depends on water quality CERAMIC PROPERTIES casted bars Modulus of Rupture 110°C (MPa) 1.9 Drying Shrinkage 110°C (%) 1.7 Firing cycle : 1220°C Oxidizing Firing Shrinkage (%) 10.0 [+/- 0.5] Total Shrinkage (%) 11.7 Water absorption (%) <0.20 Fired Bending Strength (MPa) 85 Colour (CIELab, D65/10°) L 84.56 a* 0.49 b* 8.13	Al_2O_3		27.2	
MgO 0.54 CaO 0.70 Na ₂ O 1.06 K ₂ O 3.63 LO.I. 1000°C 7.5 PHYSICAL PROPERTIES Moisture content (%) 5.0 LASER Particule size – Laser Mastersizer 2000 – D50% (μm) 6.9 Wet screening > 0.063 mm (mass %) 0.3 CASTING DATA Slip density (g/l) 1720 Deflocculant demand*: Dolaflux B11 (mass %) 0.02 Casting rate : Wall thickness after 10 minutes (mm) 3.3 [+/- 0.5] *Demand of deflocculant depends on water quality CERAMIC PROPERTIES casted bars Modulus of Rupture 110°C (MPa) 1.9 Drying Shrinkage 110°C (%) 1.7 Firing cycle : 1220°C Oxidizing Firing Shrinkage (%) 10.0 [+/- 0.5] Total Shrinkage (%) 11.7 Water absorption (%) <0.20 Fired Bending Strength (MPa) 85 Colour (CIELab, D65/10°) L 84.56 a* 0.49 b* 8.13	TiO ₂		0.14	
CaO 0.70 1.06 Na ₂ O 1.06 Na ₂ O 3.63 1.06 Na ₂ O 7.5 Na ₂ O Na ₂ O 7.5 Na ₂ O Na ₂	Fe ₂ O ₃		0.60	
Na ₂ O 3.63 K ₂ O 3.63 LO.I. 1000°C 7.5 PHYSICAL PROPERTIES Moisture content (%) 5.0 LASER Particule size − Laser Mastersizer 2000 − D50% (μm) 6.9 Wet screening > 0.063 mm (mass %) 0.3 CASTING DATA Slip density (g/l) 1720 Deflocculant demand*: Dolaflux B11 (mass %) 0.02 Casting rate : Wall thickness after 10 minutes (mm) 3.3 [+/- 0.5] *Demand of deflocculant depends on water quality CERAMIC PROPERTIES casted bars Modulus of Rupture 110°C (MPa) 1.9 Drying Shrinkage 110°C (%) 1.7 Firing cycle : 1220°C Oxidizing Firing Shrinkage (%) 10.0 [+/- 0.5] Total Shrinkage (%) 11.7 Water absorption (%) <0.20 Fired Bending Strength (MPa) 85 Colour (CIELab, D65/10°) L 84.56 a* 0.49 b* 8.13	MgO		0.54	
Section Sec	CaO		0.70	
PHYSICAL PROPERTIES Moisture content (%) 5.0 LASER Particule size – Laser Mastersizer 2000 – D50% (µm) 6.9 Wet screening > 0.063 mm (mass %) 0.3 CASTING DATA Slip density (g/l) 1720 Deflocculant demand*: Dolaflux B11 (mass %) 0.02 Casting rate : Wall thickness after 10 minutes (mm) 3.3 [+/- 0.5] *Demand of deflocculant depends on water quality CERAMIC PROPERTIES casted bars Modulus of Rupture 110°C (MPa) 1.9 Drying Shrinkage 110°C (%) 1.7 Firing cycle : 1220°C Oxidizing Firing Shrinkage (%) 10.0 [+/- 0.5] Total Shrinkage (%) 11.7 Water absorption (%) <0.20 Fired Bending Strength (MPa) 85 Colour (CIELab, D65/10°) L 84.56 a* 0.49 b* 8.13	Na ₂ O		1.06	
PHYSICAL PROPERTIES Moisture content (%) 5.0 LASER Particule size – Laser Mastersizer 2000 – D50% (µm) 6.9 Wet screening > 0.063 mm (mass %) 0.3 CASTING DATA Slip density (g/l) 1720 Deflocculant demand*: Dolaflux B11 (mass %) 0.02 Casting rate : Wall thickness after 10 minutes (mm) 3.3 [+/- 0.5] *Demand of deflocculant depends on water quality CERAMIC PROPERTIES casted bars Modulus of Rupture 110°C (MPa) 1.9 Drying Shrinkage 110°C (%) 1.7 Firing cycle : 1220°C Oxidizing Firing Shrinkage (%) 10.0 [+/- 0.5] Total Shrinkage (%) 11.7 Water absorption (%) <0.20 Fired Bending Strength (MPa) 85 Colour (CIELab, D65/10°) L 84.56 a* 0.49 b* 8.13	K ₂ O		3.63	
Moisture content (%) 5.0 LASER Particule size – Laser Mastersizer 2000 – D50% (μm) 6.9 Wet screening > 0.063 mm (mass %) 0.3 CASTING DATA Slip density (g/l) 1720 Deflocculant demand*: Dolaflux B11 (mass %) 0.02 Casting rate: Wall thickness after 10 minutes (mm) 3.3 [+/- 0.5] *Demand of deflocculant depends on water quality CERAMIC PROPERTIES casted bars Modulus of Rupture 110°C (MPa) 1.9 Drying Shrinkage 110°C (%) 1.7 Firing cycle: 1220°C Oxidizing Firing Shrinkage (%) 10.0 [+/- 0.5] Total Shrinkage (%) 11.7 Water absorption (%) <0.20 Fired Bending Strength (MPa) 85 Colour (CIELab, D65/10°) L 84.56 a* 0.49 b* 8.13	L.O.I. 1000°C		7.5	
LASER Particule size – Laser Mastersizer 2000 – D50% (µm) 6.9 Wet screening > 0.063 mm (mass %) 0.3 CASTING DATA Slip density (g/l) 1720 Deflocculant demand*: Dolaflux B11 (mass %) 0.02 Casting rate : Wall thickness after 10 minutes (mm) 3.3 [+/- 0.5] **Demand of deflocculant depends on water quality CERAMIC PROPERTIES casted bars Modulus of Rupture 110°C (MPa) 1.9 Drying Shrinkage 110°C (%) 1.7 Firing cycle : 1220°C Oxidizing Firing Shrinkage (%) 10.0 [+/- 0.5] Total Shrinkage (%) 11.7 Water absorption (%) <0.20 Fired Bending Strength (MPa) 85 Colour (CIELab, D65/10°) L 84.56 a* 0.49 b* 8.13	PHYSICAL PROPERTIES			
Wet screening > 0.063 mm (mass %) CASTING DATA Slip density (g/l) Deflocculant demand*: Dolaflux B11 (mass %) Casting rate : Wall thickness after 10 minutes (mm) **Demand of deflocculant depends on water quality CERAMIC PROPERTIES casted bars Modulus of Rupture 110°C (MPa) Drying Shrinkage 110°C (%) 1.7 Firing cycle : 1220°C Oxidizing Firing Shrinkage (%) 10.0 [+/- 0.5] Total Shrinkage (%) 11.7 Water absorption (%) Colour (CIELab, D65/10°) L 84.56 a* 0.49 b* 8.13	Moisture content (%)		5.0	
CASTING DATA Slip density (g/l) Deflocculant demand*: Dolaflux B11 (mass %) Casting rate : Wall thickness after 10 minutes (mm) **Demand of deflocculant depends on water quality CERAMIC PROPERTIES casted bars Modulus of Rupture 110°C (MPa) Drying Shrinkage 110°C (%) Firing cycle : 1220°C Oxidizing Firing Shrinkage (%) Total Shrinkage (%) Total Shrinkage (%) Total Shrinkage (%) Total Shrinkage (%) Colour (CIELab, D65/10°) L 84.56 a* 0.49 b* 8.13	LASER Particule size – Laser Mastersizer 2000 – D50%	(µm)	6.9	
Slip density (g/l) Deflocculant demand*: Dolaflux B11 (mass %) Casting rate: Wall thickness after 10 minutes (mm) *Demand of deflocculant depends on water quality CERAMIC PROPERTIES casted bars Modulus of Rupture 110°C (MPa) Drying Shrinkage 110°C (%) Firing cycle: 1220°C Oxidizing Firing Shrinkage (%) Total Shrinkage (%) Total Shrinkage (%) Fired Bending Strength (MPa) Colour (CIELab, D65/10°) L 84.56 a* 0.49 b* 8.13	Wet screening > 0.063 mm (mass %)		0.3	
Slip density (g/l) Deflocculant demand*: Dolaflux B11 (mass %) Casting rate: Wall thickness after 10 minutes (mm) *Demand of deflocculant depends on water quality CERAMIC PROPERTIES casted bars Modulus of Rupture 110°C (MPa) Drying Shrinkage 110°C (%) Firing cycle: 1220°C Oxidizing Firing Shrinkage (%) Total Shrinkage (%) Total Shrinkage (%) Fired Bending Strength (MPa) Colour (CIELab, D65/10°) L 84.56 a* 0.49 b* 8.13	CASTING DATA			
Deflocculant demand*: Dolaflux B11 (mass %) Casting rate : Wall thickness after 10 minutes (mm) *Demand of deflocculant depends on water quality CERAMIC PROPERTIES casted bars Modulus of Rupture 110°C (MPa) Drying Shrinkage 110°C (%) Firing cycle : 1220°C Oxidizing Firing Shrinkage (%) Total Shrinkage (%) Total Shrinkage (%) Fired Bending Strength (MPa) Colour (CIELab, D65/10°) L 84.56 a* 0.49 b* 8.13			1720	
Casting rate: Wall thickness after 10 minutes (mm) *Demand of deflocculant depends on water quality CERAMIC PROPERTIES casted bars Modulus of Rupture 110°C (MPa) Drying Shrinkage 110°C (%) Firing cycle: 1220°C Oxidizing Firing Shrinkage (%) Total Shrinkage (%) Total Shrinkage (%) Water absorption (%) Fired Bending Strength (MPa) Colour (CIELab, D65/10°) L 84.56 a* 0.49 b* 8.13				
Demand of deflocculant depends on water quality CERAMIC PROPERTIES casted bars Modulus of Rupture 110°C (MPa) Drying Shrinkage 110°C (%) Firing cycle: 1220°C Oxidizing Firing Shrinkage (%) Total Shrinkage (%) 11.7 Water absorption (%) Fired Bending Strength (MPa) Colour (CIELab, D65/10°) L 84.56 a 0.49 b* 8.13			-	
CERAMIC PROPERTIES casted bars Modulus of Rupture 110°C (MPa) Drying Shrinkage 110°C (%) Firing cycle : 1220°C Oxidizing Firing Shrinkage (%) Total Shrinkage (%) 11.7 Water absorption (%) Fired Bending Strength (MPa) Colour (CIELab, D65/10°) L 84.56 a* 0.49 b* 8.13			[.,]	
1.9				
1.7				
Firing cycle : 1220°C Oxidizing Firing Shrinkage (%) 10.0 [+/- 0.5] Total Shrinkage (%) 11.7 Water absorption (%) <0.20 Fired Bending Strength (MPa) 85 Colour (CIELab, D65/10°) L 84.56 a* 0.49 b* 8.13			1.9	
Firing Shrinkage (%) 10.0 [+/- 0.5] Total Shrinkage (%) 11.7 Water absorption (%) <0.20 Fired Bending Strength (MPa) 85 Colour (CIELab, D65/10°) L 84.56 a* 0.49 b* 8.13	Drying Shrinkage 110°C (%)		1.7	
Total Shrinkage (%) 11.7 Water absorption (%) <0.20 Fired Bending Strength (MPa) 85 Colour (CIELab, D65/10°) L 84.56 a* 0.49 b* 8.13	Firing cycle :	1220°C Oxidizing		
Water absorption (%) < 0.20 Fired Bending Strength (MPa) 85 Colour (CIELab, D65/10°) L 84.56 a* 0.49 b* 8.13	Firing Shrinkage (%)		10.0 [+/- 0.5]	
Fired Bending Strength (MPa) 85 Colour (CIELab, D65/10°) L 84.56 a* 0.49 b* 8.13	Total Shrinkage (%)		11.7	
Colour (CIELab, D65/10°) L 84.56 a* 0.49 b* 8.13	Water absorption (%)		<0.20	
L 84.56 a* 0.49 b* 8.13	Fired Bending Strength (MPa)		85	
a* 0.49 b* 8.13	Colour (CIELab, D65/10°)			
b* 8.13		L	84.56	
		a*	0.49	
Thermal Expansion (x10 ⁻⁷ K ⁻¹): 62		b*	8.13	
	Thermal Expansion (x10 ⁻⁷ K ⁻¹):		62	

STANDARD PACKAGING : big bags on pallets / 25 kg bags

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.

June 2014

© Imerys Ceramics 2014

10th Edition

This version supersedes the version dated January 2006



Production Site

Imerys Tableware France Plant of Aixe sur Vienne

Commercial Office

Imerys Tableware France 1 rue Jeanne d'Albret 87700 Aixe sur Vienne France

Tel. +33(0)555 70 28 68 Fax: +33(0)555 70 37 34

Email

info@imerys-ceramics.com

Website

www.imerys-ceramics.com

