# IMERYS

Mineral Solutions for Tiles

# Kaolinor<sup>™</sup> 1C

ΙΜΕRΥ



# A premium kaolin for glaze

Also known as d'Arvor Kaolin in Asia, **Imerys' Kaolinor**<sup>™</sup> **1C** has established a strong reputation, all over the world for over 30 years, as a high quality kaolin for high quality glazes.

INOR

# An insurance for aesthetic effects



As with all its mineral resources, **Imerys Ceramics** has set strict parameters to ensure the exceptional quality of this kaolin for glaze:

- rigorous extraction
- > strictly controlled transformation process
- > consistent chemical and physical properties

As part of a glaze formulation, **Kaolinor**<sup>™</sup> **1C** is the "no problem" solution. Its exceptional properties contribute to the reduction of potential surface defects:

- > absence of pin-holes
- > no black points nor impurities

Used for all production types, **Kaolinor**<sup>™</sup> **1C** is particularly suited for the production of glossy transparent and opaque glaze wall tiles resulting in a faultless surface and thus to an optimum tile production.



# High value kaolin with suspensive effect - In the glaze formulation, Imerys' Kaolinor<sup>™</sup> 1C allows:

### Suspensive effect

- high suspensivity, favouring a homogeneous glaze slip
- good rheology, improving the glaze application regardless of the equipment type
- slow sedimentation, extending glaze storage time

# **Development and technical support**

# Product consistency

- residue at 45 μm is guaranteed below 300 ppm, resulting in no visual defect
- improved production yield, increasing first choice products

Kaolinor<sup>™</sup>1C is particularly suited for the production of

digital and inkjet decoration by providing the perfect glaze substrate for printing and minimizing the

**Digital & inkjet decoration** 

reject/losses rate due to glaze defects.

Kaolinor<sup>™</sup> 1C - Production data

450

400

350

300 250

200

150

2 2

ppm (>45 μm)

Thanks to its mineral expertise, Imerys Ceramics develops tailor-made formulations for bodies and glazes in partnership with its clients. We provide a full range of technical services designed to meet tile manufacturers' demand for: > technical collaboration to improve their formulation

≤ 0.3

< 14

46 - 58

> technical assistance to find solutions for their tile production

# Kaolinor<sup>™</sup> 1C - Technical data

#### SPECIFICATIONS

CHEMICAL ANALYSIS (%)	Value
Fe <sub>2</sub> O <sub>3</sub>	0.6 - 1.0

#### PARTICLE SIZE ANALYSIS (%)

> 45 µm

< 2 µm

Moisture

#### **PHYSICAL PROPERTIES (%)**

CASTING DATA (%)	
Slip concentration	≥ 1.64

#### **TYPICAL PROPERTIES**

CHEMICAL ANALYSIS (%)	Value
SiO2	48.0
Al <sub>2</sub> O <sub>3</sub>	36.9
TiO <sub>2</sub> K <sub>2</sub> O	0.2
K <sub>2</sub> O	1.2
Na <sub>2</sub> O	0.1
CaO	0.1
MgO	0.2
L.O.I	>12.40

#### CASTING DATA (mass %)

Sodium silicate demand	0.125

CERAMIC CHARACTERISTICS	1160°	1200°
L*	96.3	95.5
a*	0.6	0.5
b*	4.2	5.2
Shrinkage (%)	5.8	7.2
Water Absorption (%)	21	12

#### PHYSICAL PROPERTIES (%)

X- 7	
Specific Gravity	2.6
R457	78.0

#### STANDARD PACKAGING

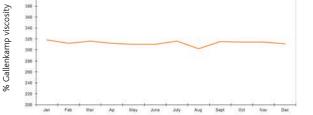
Bulk, big bags ..



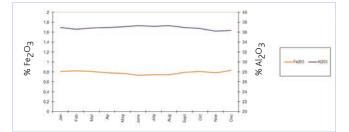
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opm (<2 µm) 60 50 40 8 2

70



5 3



The data guoted are determined by the use of Imervs Standard Test Methods, copies of which will be supplied on request. Whilst every effort is taken to ensure the accuracy of technical information, the contents of this publication are not intended to constitute or be construed as product specifications. On request, specification sheets for individual kaolins will be made available.