

# Technical Information

DF29



## CerDeChromAdvanz – Ceramic Color Management System Seven-Color Printing

Inglaze Colors for the Decoration of Porcelain

**Firing range: 1180-1220 °C**

CerDeChromAdvanz gives us the opportunity of doing the first seven-color printing process in the ceramic industry. The seven-color printing process

enables us to reproduce designs favourably compared to the original design in an economical way.

Sequence of prints	Color shade	Product no.	Pasting ratio	
1 <sup>st</sup> print	yellow	<b>13 2200</b> <sup>1</sup>	10 : 4,5	color : medium 80 820 <sup>3</sup>
2 <sup>nd</sup> print	cyan	<b>12 1916</b>	10 : 5,5	color : medium 80 820 <sup>3</sup>
3 <sup>rd</sup> print	magenta	<b>77 1910</b> <sup>2</sup>	10 : 7	color : medium 80 820 <sup>3</sup>
<b>Intermediate printing of Medium 80 3012</b>				
4 <sup>th</sup> print	green	<b>11 1454</b>	10 : 4,5	color : medium 80 820 <sup>3</sup>
5 <sup>th</sup> print	blue	<b>12 2201</b> <sup>1</sup>	10 : 5	color : medium 80 820 <sup>3</sup>
6 <sup>th</sup> print	red	<b>17 2203</b> <sup>1</sup>	10 : 5	color : medium 80 820 <sup>3</sup>
7 <sup>th</sup> print	black	<b>14 1450</b>	10 : 5	color : medium 80 820 <sup>3</sup>

<sup>1</sup> GHS symbol 07, 08, 09, H phrases 302, 332, 360Df, 373, 410

<sup>2</sup> GHS symbol 09, H phrase 400

<sup>3</sup> GHS symbol 05, 09, H phrases 315, 318, 411, EUH019

## Screen Printing

The colors are printed best with a polyester screen 120 S (120 mesh/cm or 305 mesh/inch, resp.). For screening, 48 lines per cm are ideal. The screen angle for magenta, green and blue should be 75°, for cyan and red 15° and for yellow and black 45°. The preferred squeegee hardness is 75 - 80 shore.

The indicated values for the screen angle are only recommendations according to our experience. These values should, however, be tested under individual processing conditions before use.

## Firing

Ingaze for porcelain: 1180-1220 °C (60-90 min)

## Resistance

The colors have been tested according to EN 1388.1 and 1388.2 (4 % acetic acid at 22 °C, 24 h). Heavy metal release is far below the official restrictions.

## Storage

The colors should be stored in a dry place. In order to ensure that the colors have not absorbed any humidity, we recommend drying the powder colors at approx. 130 °C prior to mixing.

## Safety Data Sheets

Our safety data sheets, which are available for every product, provide you with useful advice for working with our products.

## Quality

All Ferro products are manufactured according to stringent specifications, and thoroughly tested before leaving our premises. Ferro's quality control procedures are warranted by EN ISO 9001, and certification is carried out annually.

## Limitation of Warranty and Liability

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