

# Technical Information

## DF29

### CerDeChromAdvanz – Ceramic Colour Management System

#### Seven-Colour Printing

#### Inglaze Colours for the Decoration of Porcelain

**Firing range: 1180-1220 °C**

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

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

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

### Screen Printing

The colours 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

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

### Resistance

The colours 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 colours should be stored in a dry place. In order to ensure that the colours have not absorbed any humidity, we recommend drying the powder colours 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.

The information and statements contained herein are provided free of charge. They are believed to be accurate at time of publication, but Ferro makes no warranty with respect thereto, including but not limited to any results to be obtained or the infringement of any proprietary rights. Use or application of such information or statements is at user's sole discretion, without any liability on Ferro's part. Nothing herein shall be construed as a license of or recommendation for use, that infringes upon any proprietary rights. All sales are subject to Ferro's General Conditions of Sale and Delivery.