

# Technical Information

DF12



## CerDeChromAdvanz – Ceramic Color Management System

**Four-Color Printing Onglaze Colors for the Decoration of Porcelain, Bone China, Vitreous China, and Earthenware**

Firing Range 780 to 900 °C

Due to the newly developed four-color printing process **CerDeChromAdvanz** analogous to a special four-color separation system it is possible to reproduce designs in an optimal quality.

**Screen angle:** Magenta: 15 °  
Cyan: 75 °  
Yellow, Black: 45 °

**Squeegee hardness:** 75 - 80 °shore

### Printing Parameters

Following printing parameters are recommended:

**Screen textile:** polyester 120 (305 mesh/inch)

**Screening:** 48 lines per cm / 120 lines per inch (elliptic)

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

Coating flux 10 169 fits perfectly as a top coat when required. Recommended mixing ration: 10 parts coating flux 10 169 to 10 parts medium 80 3012.

Powder colors should be stored in a dry place. Opened containers should be closed carefully. To ensure that the colors have not absorbed any humidity, we recommend drying the color powder at approx. 130 °C prior to mixing.

**Table 1: CerDeChromAdvanz onglaze products for four color printing**

Sequence of prints	Color Shade	Product no.	Pasting ratio	
1 <sup>st</sup> print	cyan	12 1522	10:8	color : medium 80 810
2 <sup>nd</sup> print	yellow	13 651 <sup>1</sup>	10:8	color : medium 80 810
3 <sup>rd</sup> print	magenta	77 571	10:8	color : medium 80 810
4 <sup>th</sup> print	black	14 209 <sup>1+2</sup>	10:8	color : medium 80 810

<sup>1</sup> GHS symbol 07,08,09. H351, 360Df, 372, 410

<sup>2</sup> H302 + H332

## Firing Conditions

Normal firing: 780 – 830 °C  
Fast firing: 850 – 900 °C.

## 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 restriction.

## 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 DIN EN ISO 9001, and certification is carried out annually.

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