

Technical Information

DF34

Performance Pigments and Colors

CerDeChromAdvanz – Ceramic Colour Management System

Four-Colour Printing Unleaded Onglaze Colours for the Decoration of Porcelain, Bone China, Vitreous China, and Earthenware

Firing Range 820 to 900 °C

Due to the newly developed four-colour printing process **CerDeChromAdvanz** analogous to a special four-colour 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 140/31 (355 mesh/inch)

Screening: 56 lines per cm / 140 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.

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

Table 1: CerDeChromAdvanz onglaze products for four colour printing

Printing sequence	Colour Shade	Product No.	Pasting Ratio	
1 st print	Yellow	13 1650	100:75	Colour : medium 80 810 / 80 3035 (55:20)
2 nd print	Cyan	12 1655	100:90	Colour : medium 80 810
3 rd print	Magenta	77 1645	100:75	Colour : medium 80 810 / 80 3035 (55:20)
4 th print	Black	14 1650	100:70	Colour : medium 80 810
5 th print	Coating flux	10 1652	100:120	Flux : medium 80 820

Firing Conditions

Normal firing: 820 – 850 °C
Fast firing: 860 – 900 °C.

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.

The colours fulfil the limits of EN 1388 1-2 as well as the Californian prop. 65 and the FDA.

Heavy Metal Content and -Release

The mentioned colours are controlled lead- and cadmium-free with the following upper limits: 100 ppm PbO and 600 ppm CdO.

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

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