

Onglaze Colours

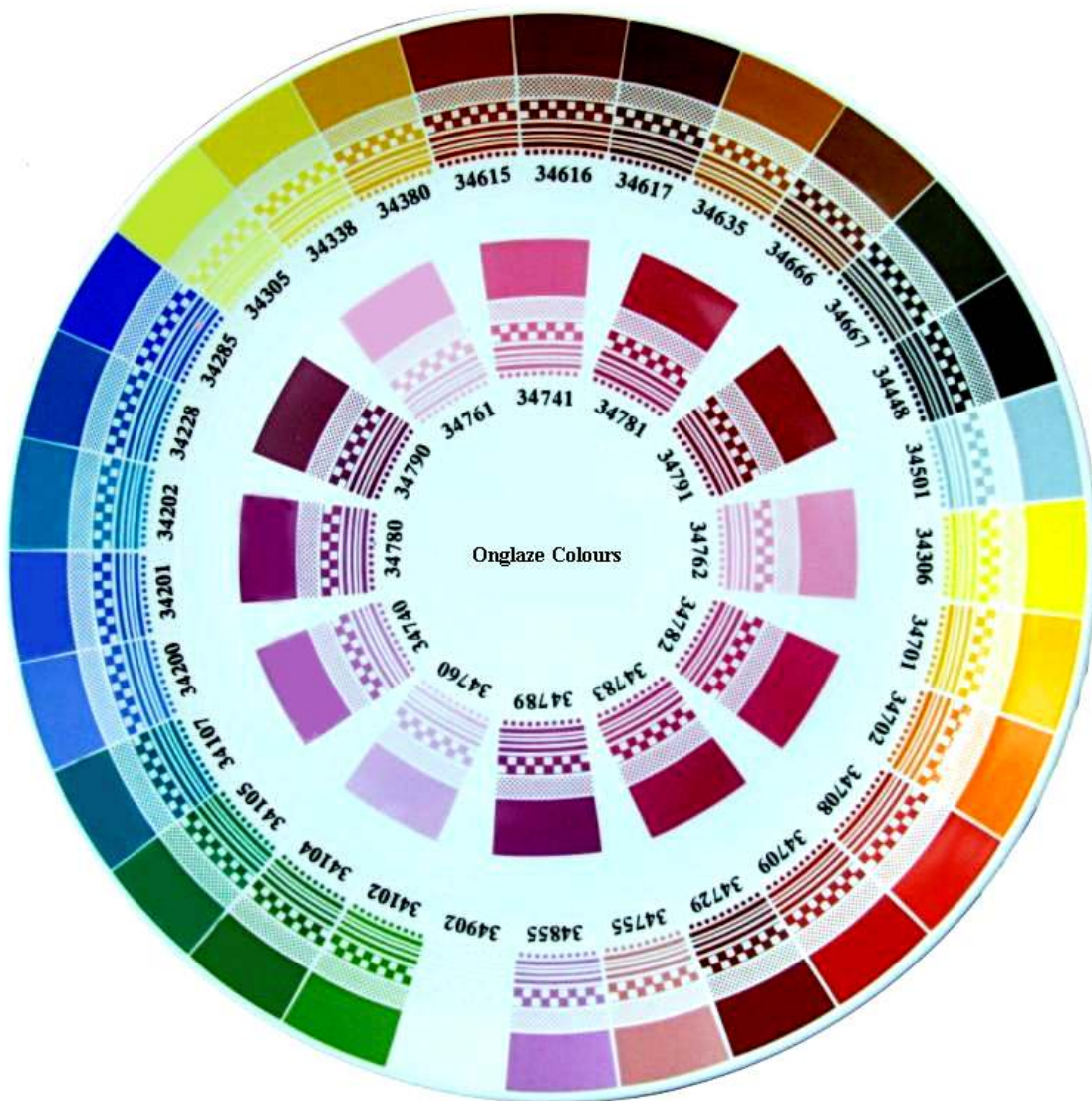
There are 2 onglaze ranges:

34 Series low metal-release

75 Series unleaded

Both are dishwasher-resistant. Dishwasher durability is tested by immersion in 0.5% Finish solution for 32hrs with no appreciable deterioration in colour or gloss. This equates to a minimum 500 cycles in a dishwasher.

34 Series onglaze colours



Product Series :	34 Series
Product Description :	Onglaze Colour, low metal-release
Firing Temperature Range :	780°C-830°C
Typical Substrate :	Art ware, pottery ware, enamel, porcelain, bone china, and tile
Presentation :	Colour powder

Colour Range

Group 1: Basic Colour

34001	Flux	34305	Lemon Yellow	34635	Brown
34104	Cr Green	34338	Yellow	34666	Brown
34107	Peacock Green	34380	Orange Yellow	34667	Dark Brown
34200	Cobalt Blue	34448	Black	34755	Pink
34201	Cobalt Blue	34501	Grey	34855	Purple
34202	Deep Sky Blue	34615	Iron Red	34902	White
34228	Cyan	34616	Iron Red	34903	White
34285	Cobalt Blue	34617	Iron Red		

Group 2: Cadmium Colour

34102	Green	34701	Orange	34709	Red
34105	Apple Green	34702	Orange	34729	Dark Red
34306	Yellow	34708	Red		

Group 3: Maroon Colour (Au)

34740	Purple	34762	Pink	34783	Maroon
34741	Reddish Pink	34780	Deep Purple	34789	Deep Purple
34760	Lilac	34781	Maroon	34790	Dark Purple
34761	Pink	34782	Maroon	34791	Dark Maroon

Miscibility:

- 1) Group 1 Basic Colours, except Iron Reds, can be mixed to yield the desired Colour.
- 2) Group 3 Au Colours can be mixed with other colours within the group, and with Group 1 Basic Colours, except Iron Reds
- 3) Group 2 Cadmium Colours can only be mixed with other Colours within the group.

4) Iron red Colours can only be mixed with each other.

Application

1) Recommend 200-300 mesh per inch screen printing.

Mixing ratio of Colour and printing medium

Colour : Printing Medium = 100 : 50-70

2) Firing:

Fire for 90 minutes; maintain 780-820°C for 10 minutes.

34 Series 4-colour Set

Product Series :	34 Series
Product Description :	Onglaze Colour
Firing Temperature Range :	780°C~830°C
Typical Substrate :	Art ware, pottery ware, enamel, porcelain, bone china, and tile
Presentation :	Colour powder

Traditional ceramic 4-colour printing consists of yellow, magenta, cyan and black. Recently, an additional blue has been included in the range for improving brilliance and colour shade.

Cadmium pigments are the ideal choice for creating warm colour shades. In this case, cadmium yellow and selenium red are used as a substitute for yellow and magenta.

Colour Range

Group 1: Basic Colours

34228 Cyan

34448 Black

34305 Yellow

34783 Magenta

Group 2: Cadmium Colours

34306 Yellow

34708 Selenium Red

Group 3: Additional Colours

34285 Blue

14111 Green

Application

- 1) Recommend 300-380 mesh per inch screen printing.
- 2) Keep multilayer printing under 40µm. (The thickness of one single layer is around 15-20µm.)
- 3) Heat up powders to 130°C for complete dryness before usage.
- 4) Mixing ratio of colour and printing medium
Colour: printing medium = 10: 6-8
Recommended printing medium: 80063
- 5) Over flux
34001 recommended.
- 6) Firing:
Basic colours plus additional colour:
Fire at a temperature of 800 - 840°C for 90 minutes and soak for 10 minutes.
- 7) Cadmium Colours:
Fire at a temperature of 780 - 820°C for 90 minutes and soak for 10 minutes.

75 Series Unleaded Onglaze Colour



Product Series :	75 Series
Product Description :	Unleaded Onglaze Colour
Firing Temperature Range :	800°C-860°C
Typical Substrate :	Art ware, pottery ware, porcelain, bone china, and tile
Presentation :	Colour powder

Colour Range

Group 1: Basic Colour

75070	Cover Flux	75277	Blue	75635	Ocher
75102	Cr Green	75320	Yellow	75668	Sepia
75188	Peacock Green	75325	Orange Yellow	75731	Iron Red
75204	Peacock Blue	75430	Black	75775	Pink
75226	Blue	75435	Black	75855	Purple
75265	Navy Blue	75501	Grey	75901	White

Group 2: Cadmium Colour

75750	Yellow	75754	Red	75756	Red
75752	Orange	75755	Red	75758	Dark Red

Group 3: Maroon Colour (Au)

75760	Lilac	75771	Reddish Pink	75790	Dark Purple
75761	Pink	75780	Deep Purple	75791	Dark Maroon
75770	Purple	75781	Maroon		

Miscibility:

- 1) Basic colors can be mixed to yield the desired color.
- 2) Cadmium colors can only be mixed with other colors within its group.
- 3) Iron red colors should be used independently.

Application

- 1) Recommend 200-300 mesh per inch screen printing.

Mixing ratio of Colour and printing medium

Colour : Printing Medium = 100 : 50-70

- 2) Firing:

Fire for 90 minutes; maintain 780-820°C for 10 minutes.