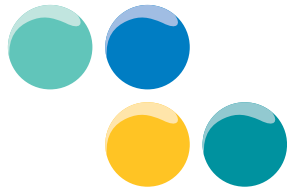






Decorative glass Enamels



Product information

V3700 Series

glass enamels for glassware
and tumblers

	Variety of colour shades
	Intermixable colour palette
	Various application methods
	Glossy surface appearance



Johnson Matthey
Colour Technologies

 **Colour range**

Part Number	Description
V3700	White
V3701	Lemon yellow
V3702	Citrus yellow
V3703	Flaming red
V3704	Turquoise
V3705	Cobalt blue
V3706	Black
V37111	Rust brown
V37114	Chocolate brown
V3734	Etch
V3746	Transparent
V3736	Orange
V3737	Dutch orange
V3738	Ruby red
V3739	Green
V3740	Chrome green
V3742	Ocean blue
V3744	Autumn brown
V3759	Baby blue
V37118	Peachy pink
V3735	Arctic white

The core range V3700 Series consists of an intermixable colour palette that can be blended to make an infinite variety of customized colour shades.

The colours of the V3700 Series can be supplied as:

- Powder
- I.R. drying, water friendly or oil based, screen print paste
- Thermoplastic screen print paste



Application

Medium Type	Oil Based IR Medium	Water Friendly IR Medium	Thermoplastic	Spraying
Recommended medium	63 - 485	654 - 63	64 - 64	S2338
Recommended thinner	RM.441	RM.444	64 - 64	Water
Powder/medium ratio	5 : 1	5 : 1	6 : 1	70 parts powder 7 parts medium 23 parts water
Viscosity	15 - 20 Pa.s	15 - 20 Pa.s	1,0 - 1,8 Pa.s	15 - 25 sec
Printing temperature	15 - 25°C	15 - 25°C	60 - 80°C	15 - 25°C
Humidity	30 - 60%	30 - 60%	30 - 60%	n/a
Screen	61 - 90	61 - 90	61 - 90	n/a
Wet film thickness	20 - 25µm	20 - 25µm	20 - 25µm	250 - 350 g/m ²
Drying conditions	100 - 150°C	100 - 150°C	n/a	100 - 150°C
Storage	5 - 25°C	5 - 25°C	5 - 25°C	5 - 25°C
Shelf life	1 year	1 year	1 year	6 months

It is recommended that before decoration the glass should be at ambient temperature and completely clean and dry.



Firing

Type of Substrate	Firing Range °C	Firing Range °F
Holloware	580 - 650	1076 - 1201

Chemical durability

Acid resistance

Test results: Medium

10 % HCl 20 minutes at room temperature grade: 4 to 5.

Assessment according to ASTM C735-93.

Alkaline resistance

Test results: Good

According to Johnson Matthey test KC-40.270: 0 (no attack apparent).

Dishwasher resistance

Test results: Medium

According to the Johnson Matthey test KC-50.010-I:

1.5 grams/litre Calgonite solution at 61°C

white > 350 cycles, colours 50 cycles.

Storage and handling

It is recommended that the glass enamels are stored in tightly sealed containers away from direct sunlight at an even temperature in the range of 5-25°C (41-77°F).

Under these conditions the enamel can be stored for reasonable periods, although storage for longer than 12 months is not recommended.

Water based spray medium should never be stored at temperatures < 0°C.

Health and safety

Good industrial hygiene and work practices should be adhered to when handling the products mentioned in this document. For detailed health and safety requirements, please consult the appropriate Material Safety Data Sheets.



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