

VNG 100 System

Main Market Use

These lead-free enamels are recommended for decoration of soda-lime packaging **single-trip non- returnable bottles**, where chemical durability is not an issue.

Chemical Composition

Colors in this System do not contain voluntary additions of heavy metals – Pb, Cd, Hg and Cr⁶⁺.

COLOR	REFERENCE	Pantone
GREEN	VNG 1943	355
BLUE	VNG 2900	293
WHITE	VNG 9920	-
BLACK	VNG 4900	-
FLUX	VNG 900	-
AcE IMITATION ETCH	VNG 903	-
RED	VNG 7953	7622
Yellow	VNG 3951	128
Orange	VNG 7935	159

The Pantone references are provided as an indication of the shade only.

These colors are intermixable. We recommend performing preliminary tests before launching production with color mixtures from this System.

Additional colours are available on demand.

Our technical service teams also offer a full custom-color matching service.

Expansion Coefficient (C.o.E.)

This system is suitable for most chemical compositions used in the production of soda-lime glass bottles.

Recommended Firing Conditions

From 580°C to 610°C (1075-1130°F) in a cycle of 1 h-1.5 h with a soaking period of approx. 10 min, dependant on both the type of furnace and the volume of ware fired.

We recommend an oxidising atmosphere to give optimal fired appearance and brightness. It is essential to maintain good ventilation, and an efficient extraction of the combustion gases and the products resulting from decomposition of the medium.

Chemical resistance

Acid resistance : 7

Alkali resistance : 7