

Q Series

Leaded Glass Enamels Without Alkaline Resistance

Markets and industries

Enamels for the decoration of glass tumblers, cosmetic and perfume containers.

COLOR	PART NUMBER	PANTONG	COLOR	PART NUMBER	PANTONG
RED	Q 11221*	186C	BLUE	Q 51221	293C
ORANGE	Q 11321*	021C	ROYAL BLUE	Q 51321	286C
MAROON	Q 11521*	201C	LIGHT BLUE	Q 51521	285C
PINK	Q 11621*	701C	SKY BLUE	Q 51621	2915C
YELLOW	Q 21221*	116C	CYAN	Q 51421	634C
WHITE	Q 31121		BROWN	Q 61221	477C
GRASS GREEN	Q 41121	348C	BLACK	Q 71121	
OLIVE GREEN	Q 41221	7743C	METALLIC GOLD	Q 81121	
DARK GREEN	Q 41321	349C	METALLIC COOPER	Q 81221	
BLUE GREEN	Q 41421	322C	METALLIC MAROON	Q 81321	
YELLOW GREEN	Q 41621	370C	METALLIC SILVER	Q 81421	
LIGHT GREEN	Q 41721	3258C	ETCH	Q 002	
FLUX	Q 001				

* cadmium containing colors

Chemical composition

Enamels of Q series contain a small amount of lead. And some colors like red, yellow and orange have to use cadmium pigments to satisfy the requirements by customers.

Firing conditions

Firing from room temperature to 520~550°C in a cycle of 45 min to 1.5 hour, with a soaking period of approx. 10 min.

Chemical resistance

Alkaline resistance assessment according to ASTM C675-91, 9.1 % sodium hydroxide, 0.9 % trisodium phosphate, 2 hours at 88°C. Grade: 1 to 2 cycles.

Acid resistance assessment according to ASTM C724-91, 10 % citric acid, 3.7% hydrochloric acid 15mins at 22±2°C. Grade: 7.

Limitation of Warranty and Liability

We believe that the information shared in this document is accurate at the time of its publication. It is not a product specification, either in whole or in part. Users are responsible for determination of the suitability of this product and for testing in specific applications. Please test first before use. Nothing in this document shall be construed as a license for use that infringes upon any property rights of any third party. Please refer to the Safety Data Sheet (SDS) for safe use, handling and disposal information.

Q 系列

含铅不耐碱玻璃釉料

市场行业

用于装饰玻璃杯，化妆品和香水器皿的釉料。

颜色	编号	潘通色卡号	颜色	编号	潘通色卡号
红色	Q 11221*	186C	蓝色	Q 51221	293C
桔色	Q 11321*	021C	品蓝	Q 51321	286C
红褐	Q 11521*	201C	浅蓝	Q 51521	285C
粉色	Q 11621*	701C	天蓝	Q 51621	2915C
黄色	Q 21221*	116C	青色	Q 51421	634C
白色	Q 31121		棕色	Q 61221	477C
草绿	Q 41121	348C	黑色	Q 71121	
橄榄绿	Q 41221	7743C	有金属光泽的金色	Q 81121	
深绿	Q 41321	349C	有金属光泽的铜色	Q 81221	
蓝绿	Q 41421	322C	有金属光泽的红褐色	Q 81321	
黄绿	Q 41621	370C	有金属光泽的银色	Q 81421	
浅绿	Q 41721	3258C	蒙砂色	Q 002	
调色剂	Q 001				

*颜色中含镉

化学成分

Q 系列釉料含少量的铅元素。

为满足客户需求，有的颜色像红色、黄色和桔色使用含镉的颜料。

焙烧工艺

经过 45 分钟到 1.5 小时从室温升温到 520~550°C 后，保温 10 分钟左右。

耐化学性

耐碱性评估根据 ASTM 标准 C675-91，9.1%氢氧化钠，0.9%磷酸钠，88°C 下 2 小时。等级: 1 至 2 个循环。

根据 ASTM 标准 C724-91，10%柠檬酸，3.7%盐酸，22±2°C 下 15 分钟，等级:7。

保证和责任限制

我们确信本文件公布时所共享的信息是准确的。它不是全部或部分的产品规格。用户负责确定本产品的适用性，并在特定应用中进行测试。使用前请先测试。本文件中的任何内容均不得解释为侵犯任何第三方财产权利的使用许可。有关安全使用、处理和处置信息，请参阅安全数据表 (SDS)。