

O33. INORGANIC AND ORGANIC PMU INKS

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Permanent make up (PMU) is an expanding business with a broad range of applications like eye-brow and lip pigmentations, corrections of discolorations of the skin, but also covers less known applications like scalp pigmentations, and various other.

The discussion of safety of inorganic PMU inks in regard to heavy metal impurities like nickel has triggered the development of new organic PMU colors. Inks on basis of organic colors are commonly used for tattoo application where bright, intense colors and a broad range of different color shades is demanded. Organic pigments are nickel-free, but there are other safety concerns of this pigments when in skin.

In addition, the requirements of PMU colors are as versatile as the application since skin and pigmentation technique varies, and the PMU color shades have to cover a broad spectrum from natural looking color shades until intense colors.

In this work we will discuss the different requirement of PMU colors for eyebrow and lip pigmentation. We will present results of eye brow and lip pigmentations with organic inks. The results show that organic PMU colors are excellent for lip pigmentation and look promising for eye brow pigmentations, still being a classical application for inorganic PMU inks. This data will be supplemented with a safety assessment of the organic and inorganic colors, and general measures for quality control or the products.