



# TECHNICAL INFORMATION

## Gel Inks

### 1. General Information:

These Gel pen inks are suitable for Gel pen plastic and metal cartridges and direct fill Gel pens.

Pen manufacturer should evaluate Polybutene base Silicone grease as ink follower and compatibility to these inks.

These inks are distinguished by especially well balanced properties. This assortment satisfies nearly all customer requests due to a high degree of reliability and experience.

All inks are dye base suitable for 0.3 mm, 0.4 mm, 0.5 mm & 0.6 mm SS and Ni/Ag tips.

### 2. Physical data and special properties:

Ink Description	Final F/ N	Item #	Quality	Color	Viscosity CPS at 25° C		Specific Gravity 25° C Grams/CC	pH at 25° C	Surface Tension at 25° C Dynes/cm	Light Fastness
					at Shear Rate					
					3.75/ Sec. Max / Min	150 / Sec. Max / Min				
<b>Gel Ink # 38144</b>	<b>A</b>	<b>NA</b>	<b>Deluxe</b>	<b>Black</b>	<b>1,300 / 850</b>	<b>---- 65 / 90</b>	<b>1.07 ± 0.04</b>	<b>7.5 ± 1.0</b>	<b>38 ± 5</b>	<b>Excellent</b>
<b>Gel Ink # 38145</b>	<b>B</b>	<b>NA</b>	<b>Deluxe</b>	<b>Blue</b>	<b>1,300 / 850</b>	<b>---- 65 / 90</b>	<b>1.055 ± 0.04</b>	<b>7.5 ± 1.0</b>	<b>38 ± 5</b>	<b>Excellent</b>
<b>Gel Ink # 38146</b>	<b>B</b>	<b>NA</b>	<b>Deluxe</b>	<b>Red</b>	<b>1,300 / 850</b>	<b>---- 65 / 90</b>	<b>1.065 ± 0.04</b>	<b>7.5 ± 1.0</b>	<b>38 ± 5</b>	<b>Excellent</b>
<b>Gel Ink # 38148</b>	<b>B</b>	<b>NA</b>	<b>Deluxe</b>	<b>Purple</b>	<b>1,300 / 850</b>	<b>---- 65 / 90</b>	<b>1.055 ± 0.04</b>	<b>6.5 ± 1.0</b>	<b>38 ± 5</b>	<b>Excellent</b>
<b>Gel Ink 38147</b>	<b>B</b>	<b>NA</b>	<b>Deluxe</b>	<b>Green</b>	<b>1,300 / 850</b>	<b>---- 65 / 90</b>	<b>1.065 ± 0.04</b>	<b>7.5 ± 1.0</b>	<b>38 ± 5</b>	<b>Excellent</b>

All Inks are ASTM D-4236 and EN 71 Panel approved. The finished Gel Pen needs separate ASTM D-4236 approval.

The information given herein is based on our current knowledge and experience. In view of the many factors that may affect processing and application. These claims do not relieve processors from the responsibility of carrying out their own tests and experiments. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislation are observed.

