

HM/HMS BLENDING FORMULATIONS

Blends to achieve matches for inks based on the HM Toners:

<u>COLOR</u>	<u>BLENDING FORMULA</u>	
Neon Red HM-12	65.00 32.55 <u>2.45</u> 100.00	Vehicle Aurora Pink HM-11 Strong Yellow HMS-34
Rocket Red HM-13	65.00 25.55 <u>9.45</u> 100.00	Vehicle Aurora Pink HM-11 Strong Yellow HMS-34
Fire Orange HM-14	65.00 22.75 <u>12.25</u> 100.00	Vehicle Strong Yellow HMS-34 Aurora Pink HM-11
Blaze Orange HM-15	65.00 26.95 <u>8.05</u> 100.00	Vehicle Strong Yellow HMS-34 Aurora Pink HM-11
Arc Yellow HM-16	65.00 31.50 <u>3.50</u> 100.00	Vehicle Strong Yellow HMS-34 Aurora Pink HM-11
Saturn Yellow HM-17 (Match is slightly cleaner and stronger)	63.70 34.30 <u>2.00</u> 100.00	Vehicle Strong Yellow HMS-34 15Y393D H.R. Yellow Disp. ²
Signal Green HM-18 (Match is slightly cleaner)	58.50 31.50 <u>10.00</u> 100.00	Vehicle Strong Yellow HMS-34 15G81 PCN Green Disp. ³

<u>COLOR</u>	<u>BLENDING FORMULA</u>	
Horizon Blue HM-19	65.00	Vehicle
	33.65	Brightener HM-35
	<u>1.35</u>	DS-2909 Hectolene Blue Dye ⁴
	100.00	
Corona Magenta HM-21	65.00	Vehicle
	21.00	Strong Magenta HMS-30
	<u>14.00</u>	Brightener HM-35
	100.00	

**Colormatches for PANTONE 801-807 Using HM/HMS
Toners:**

PANTONE Blue 801	65.00	Vehicle
	17.15	Horizon Blue HM-19
	1.05	Strong Yellow HMS-34
	<u>16.80</u>	Brightener HM-35
100.00		
PANTONE Green 802	58.50	Vehicle
	31.50	Strong Yellow HMS-34
	<u>10.00</u>	15G81 PCN Green Disp ³
	100.00	
PANTONE Yellow 803	65.00	Vehicle
	34.65	Strong Yellow HMS-34
	<u>0.35</u>	Aurora Pink HM-11
	100.00	
PANTONE Orange 804	65.00	Vehicle
	24.50	Strong Yellow HMS-34
	4.20	Aurora Pink HM-11
	<u>6.30</u>	Brightener HM-35
100.00		
PANTONE Red 805	65.00	Vehicle
	18.55	Aurora Pink HM-11
	12.95	Strong Yellow HMS-34
	<u>3.50</u>	Brightener HM-35
100.00		

<u>COLOR</u>	<u>BLENDING FORMULA</u>	
PANTONE Pink 806	65.00	Vehicle
	12.25	Strong Magenta HMS-30
	12.25	Aurora Pink HM-11
	<u>10.50</u>	Brightener HM-35
	100.00	
PANTONE Magenta 807	65.00	Vehicle
	17.15	Strong Magenta HMS-30
	17.68	Brightener HM-35
	<u>0.17</u>	Horizon Blue HM-19
	100.00	

The following vehicle is used by the R&D and QC labs to check the color and solubility of HM and HMS Toners:

66.80	Tecsol C Anhydrous Alcohol ¹
3.42	Water
17.71	Normal Propyl Acetate
<u>12.07</u>	Cellulose Acetate Propionate CAP-504-0.2 (Eastman Chemical)
100.00	

¹Denaturing Formula = Tecsol C 98% ethyl alcohol, 1% methyl isobutyl ketone and 1% ethyl acetate.

²Penn Color - 16% HR Yellow in SS nitrocellulose solution (Pigment Yellow 83) (215-345-6550)

³Penn Color - 22% Blue Shade Phthalocyanine Green in SS nitrocellulose solution. (Pigment Green 7) (215-345-6550)

⁴Dye Specialties - Similar to Basic Blue 7, but modified to be water insoluble. (201-866-9504)