A Collection of Falling Leaves Formulae

by Steve Wilson

Ingredient	Blue	Turquoise	Green	Lime	Yellow	Orange	Red	Magenta	Purple	Ingredient
Barium Nitrate		50	56	53						Barium Nitrate
Strontium Nitrate					50	48	50	35	10	Strontium Nitrate
Sodium Nitrate				3						Sodium Nitrate
Potassium Perchlorate	50		5	5	5	5	5	11	43	Potassium Perchlorate
Magnalium	4	10	16	16	15	13	12	10	4	Magnalium
Copper Oxide	18	10						11	14	Copper Oxide
Calcium Carbonate						7				Calcium Carbonate
Cryolite					14	7				Cryolite
Hexamine	4	5	3	3						Hexamine
Parlon	15	18	17	17	15	15	18	16	15	Parlon
Saran/Dechlorane	2							8	7	Saran/Dechlorane
Sulfur		4					5	5		Sulfur
Charcoal					3	3	5	4		Charcoal
Red Gum	7	2	3	3	2	2	2	3	7	Red Gum
	100	99	100	100	104	100	97	103	100	

Notes:

Blue	"Spanish 1.5" derived from Spanish 1 and 2 in Ned's Fireworking. Ok color, reasonable burn rate.
Turquioise	Excellent binding and handling.
Green	Denser comp due to barium (same with lime). Use more comp weight for a given batch size. Great color.
Lime	Hygroscopic some, keep dry, use soon. Not good in humid climates.
Yellow	From Gary Smith for screen cutting stars. Listed as "orange" by Gary, but definitely yellow because of 14% cryolite.
Orange	Excellent binding and handling.
Red	Vivid color. Essentially the Independance red.
Magenta	Picky binder, use higher percentage of MEK solvent. Keep particle sizes of chems very small. Excellent color.
Purple	Purples and Blues are difficult to match saturation and burn rates with other colors in this system. Good but could use more development.