



ACID DYES

## GAMMACOLOR ACID DYES: SOLIDO ACIDO / FOLLONE / M / GAMMASET/K

**SOLIDO ACIDO DYES:** these dyes own great levelling properties. Coverage of barre is very good. Furthermore, they are suitable for trichromatic combination shades. This class of dyes is especially good for carpet and sportswear coloration. They can be applied both on polyamide and wool.

### DYEING METHOD:

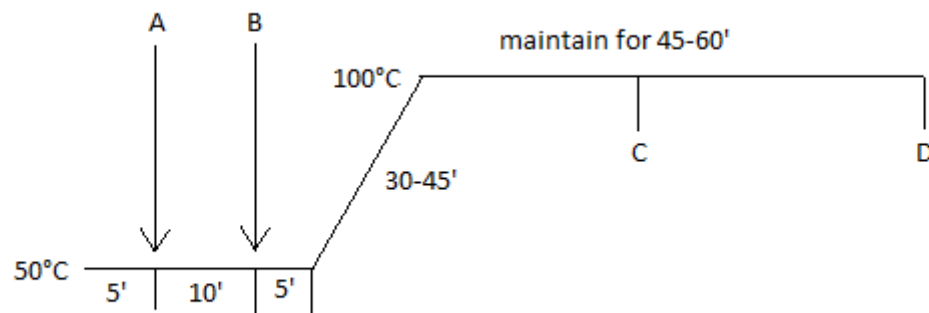
Set bath at 50°C and run with goods for 5'.

A: 5% sodium sulphate, 2-3% acetic acid 80% (or 4% sulphuric acid 96% in case of brilliant solido acido dyes), levelling agent;

B: add dissolved dye;

C: check exhaustion and, if necessary, add 2% of formic acid or 2% sulphuric acid;

D: Release dyebath and thoroughly rinse with warm and cold water.



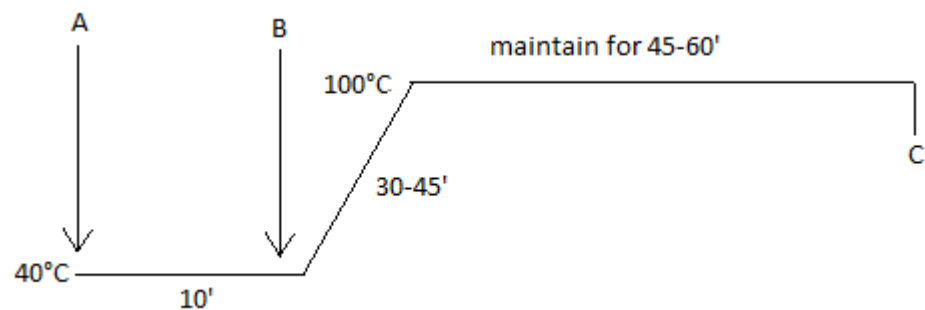
**FOLLONE DYES:** this kind of acid dyes have good wet fastness. Especially they are used for dark shades giving best results as self shades or in limited combinations.

### DYEING METHOD:

A: set bath at 40°C with 1-2% levelling agent, 3-4g/l ammonium sulphate;

B: add dye solution, raise to boiling temperature in 30-45' maintaining for 40-60' (for high % of dye, add acetic acid to complete exhaustion).

C: Release dyebath and thoroughly rinse with warm and cold water.



**M DYES:** These acid dyes are 1:2 metal complex dyes. Main features: good levelling properties; good wet fastness; exceptional light fastness; great compatibility. Suitable for reproducing pale shades in automotive field.

<p><b>DYEING METHOD:</b>  <b>A:</b> set bath at 50°C with 2g/l sodium acetate, pH 5 with Acetic acid, levelling agent.  <b>B:</b> add dye solution, raise to boiling temperature in 30-45' maintaining for 40-60' (for high % of dye, add acetic acid to complete exhaustion).  <b>C:</b> Release dyebath and thoroughly rinse with warm and cold water.</p>	
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**GAMMASET DYES:** easy and cost-effective application; high overall fastness with no aftertreatment; good reproducibility. Good levelling and migration properties. Suitable for nylon, silk and wool. They can be applied on loose fibers, sliver tops in package form, yarn hank, yarn package, fabric. Recommended application: men's and women's outerwear, swimwear

<p><b>DYEING METHOD:</b>  <b>A:</b> set bath at 40°C with levelling agent.  <b>B:</b> set the pH bath at 4-5, run for 10'.  <b>C:</b> add dye solution, and run again for 10'; raise to boiling temperature in 30-45' maintaining for 40-60'.  <b>D:</b> cool, release dye bath and rinse</p>	
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**K DYES:** it's a special selection of acid dyes, with exceptional fastness to severe water. They follow SOLIDO ACIDO DYES dyeing method.

**DYE CLASS:** A=SOLIDO ACIDO / FOLLONE; M =Metal complex; GS=GAMMASET; K=K DYES

Dischargeability: Zn sulfoxylate formaldehyde (5=fully dischargeability)

Chlorinated water (20ppm)-fading; Light fastness ISO 105 B02 (blue scale up to grade 8): when 3 values reported: 2/1, 1/1, 1/12 of the shade; when 2 values are reported: 1/1, 1/10 of the shade. Washing, water, Perspiration & sea water: when 1 value reported: staining on PA; when 3 values: change in shade/staining on PA/staining on Cotton.

<b>Solido acido &amp; Gammalan series</b>	<b>%</b>	<b>Acid dye name</b>	<b>CLASS</b>	<b>CI</b>	<b>Solubility (g/l) 90°C</b>	<b>Xenotest</b>	<b>Washing 60°C</b>	<b>Acid perspirat ion</b>	<b>Alkaline perspirat ion</b>	<b>Water</b>	<b>Sea water</b>	<b>Chlorinat ed water</b>	<b>Dischargeabi lity</b>
	1	GIALLO 8GX	A	184	50	3-4 3 2-3	4 4-5 5	4-5 3-4 3-4	4-5 3-4 3-4	4-5 3-4 4	4-5 3-4 4		3
	1	GIALLO GWG	A	61	90	6 5-6 5	4 4-5 4-5	4-5 4-5 4	4 4 3-4	4-5 4 4-5	4-5 4 4-5		
	1	GIALLO EGL	A	49	60	6-7 6 5-6	4 4 4-5	4-5 3 4	4 2-3 3-4	4 3 4	4 3-4 4-5		5
	1	GIALLO R	A	42	40	7 5-6 6	4-5 4-5 4-5	4-5 4 4-5	4-5 4 3-4	4-5 4 4-5	4-5 4 4-5		5
	1	GIALLO 4GL	A	79	100	6 5-6 5-6	4 4-5 4-5	4-5 4 4-5	4 4 4	5 4-5 5	4-5 4-5 4-5	3	4
	1	GIALLO 4R 200%	A	219	100	7 6-7 6-7	4-5 4 3-4	5 4 4	5 2-3 3	4-5 3-4 3-4	4-5 4-5 3-4		3
	1	GIALLO F3RL	A	67 ORANGE	80	6 6 5	4 4 4-5	4 4 3-4	4 3-4 3-4	4-5 4 4	4-5 4 4		3
	1	GIALLO M3RL	M	194	50	6-7 6 5-6	4-5 4-5 5	4-5 4-5 4-5	4-5 4 4	4-5 3-4 4-5	4-5 4 4-5		2
	1	FLAVINA M7G	A	250	100	3 4	4-5 4-5 4-5	4 4 3-4	4-5 3-4 3-4	4-5 3 3-4		4	3
	1	GIALLO 3GL	A	246	100	5 6-7	4-5 4-5 4-5	4-5 4-5 4-5	4-5 4-5 4-5	4-5 4-5 4-5		4	

Solido acido & Gammalan series	%	Acid dye name	CLASS	CI	Solubility (g/l) 90°C	Xenotest	Washing 60°C	Acid perspirat ion	Alkaline perspirat ion	Water	Sea water	Chlorinat ed water	Dischargeabi lity
	1	GIALLO K-3R	K	137	75	7	5			5	5		3
	1	GIALLO M-5GL	M	158	60	7 6-7 5	4-5 4-5 4-5	4-5 4-5 4-5	4-5 4-5 4-5	4-5 4-5 4-5	5		4-5
	1	GIALLO SGL	A	232									4-5
	1	GIALLO S-2G	A	220	75	7-8	4			4-5	4-5		3
	1	GIALLO K-2GL	K	59									4-5
	1	GIALLO M2GLN	M	241	40	6 5-6 5	4-5 4-5 4-5			4-5 4 4-5			3
	1	GIALLO FLW	A	110		5-6 5 4-5	4-5 4-5 4-5		4-5 4-5 5	5 5 5			5
	1	ARANCIO S-2R	A	144	100	5-6	5			4-5	5		2
	1	ARANCIO M RL	M	142		7 6-7 5-6	5 4-5 4-5			4 4 4			3
	1	ARANCIO X3E	A	3	70	5 4 3-4	3 4 4-5	2-3 1-2 4	3 2-3 4-5	3-4 3 4			4
	1	ARANCIO FSL	A	116	60	5-6 5 4-5	4 4 4-5	5 4-5 5	4-5 4-5 4-5	4-5 4-5 4-5	4-5 4-5 4-5		4

Solido acido & Gammalan series	%	Acid dye name	CLASS	CI	Solubility (g/l) 90°C	Xenotest	Washing 60°C	Acid perspirat ion	Alkaline perspirat ion	Water	Sea water	Chlorinat ed water	Dischargeabi lity
	1	SCARLATTO ML	M	357	100	5-6 5 5							3
	1	SCARLATTO FG	A	374	25	5 4-5 4	4-5 4 4	4-5 5 5	4 4-5 4-5	5 5 5	4-5 4-5 5		
	1	ROSA MFR 300%	A	418									1
	1	ROSSO 2BS	A	266	50	6-7 6 5-6	4 3-4 3-4	4 3-4 4	4 3 3-4	4-5 3-4 4	4 4 4		4
	1	ROSSO GWG	A	118	70	6 5-6 5	4 3-4 3-4	4-5 3-4 4	4-5 3 4	4 3 4-5	4 3 4-5		
	1	ROSSO 3GW	A	57	90	6 5 4	3 3-4 3-4	3-4 2-3 3-4	3-4 2-3 3-4	4 3 4	4 3-4 4		
	1	ROSSO FGRS	A	mix	30	5-6 5 4-5	4-5 4-5 4-5	4-5 4 4	4-5 3-4 3	4-5 4-5 4-5	4 4 4-5		
	1	ROSSO 3B	A	131	60	4-5 4 3-4	3-4 4 4	4 4 4	4 4 4	4-5 4-5 4-5	4-5 4-5 4-5		4
	1	ROSSO 2B	A	361	90	6 5 4-5	4-5 4 4-5	4-5 4-5 4-5	5 4-5 4-5	5 4-5 4-5	5 4-5 4-5		3-4
	1	ROSSO N-RB	A	Mix	50	5 4-5 4	4-5 4 4	4-5 4 4	4-5 4 4	4 3 4-5	4 3-4 5		
	1	ROSSO MB	A	88	30	3 4-5	4-5 4 4-5	4-5 4-5 4-5	4-5 4-5 4-5	4-5 4-5 4-5			4



<b>Solido acido &amp; Gammalan series</b>	<b>%</b>	<b>Acid dye name</b>	<b>CLASS</b>	<b>CI</b>	<b>Solubility (g/l) 90°C</b>	<b>Xenotest</b>	<b>Washing 60°C</b>	<b>Acid perspirat ion</b>	<b>Alkaline perspirat ion</b>	<b>Water</b>	<b>Sea water</b>	<b>Chlorinat ed water</b>	<b>Dischargeabi lity</b>
	1	BORDO SB	A	405	80		4-5 5 5		4-5 4-5 4-5	4-5 4 4-5			1-2
	1	BORDO K-R	K	182	50	6 5 4	4-5 4-5 4-5			4-5 4-5 5			3 4/5
	1	BORDO VNL	A	119	25	5 4-5 4	3 4 3-4	4 4-5 4	4 4 4	4-5 4 4			4
	1	RUBINO 5BT	A	299	40	6 5 4-5	3-4 3-4 4	4 4 4	4 3 3-4	4-5 3-4 4	4-5 4 4		5
	1	VIOLETTA FBN	A	48	80	6-7 6 5-6	5 5 5	4-5 4-5 4-5	4-5 4 4-5	5 4-5 5	4-5 4-5 4-5		
	1	BRUNO S-GR 150%	M	282									
	1	BRUNO MBL	M	355	50	6-7 6 5-6	4-5 4-5 5	4-5 4-5 4-5	4-5 4-5 4-5	4-5 4-5 4-5	4-5 4 4-5		2
	1	BRUNO 5R	A	51	20	5 4-5 4	3-4 4 3-4	4 4 4	4 4 4	4 4 4			4
	1	OLIVA M BGL	M	104	60	7 6-7 6	4-5 4-5 4-5			4-5 4 4-5			4-5
	1	OLIVA GLS	M	73	60	7-8 7 6	4-5 4-5 4-5	4-5 4 4-5	4-5 4 4-5	4-5 4 4-5		4-5	1-2
	1	VERDE G	A	25	30	6-7 6 5-6	4 4-5 4	4 3-4 4	4 3 3-4	4-5 4 4	4 4 4		1-2
	1	VERDE 6GL	A	28	35	6 5-6 5-6	4 4-5 4-5	4-5 5 5	4-5 4-5 4-5	4-5 5 5	4-5 5 5		









Gammaset series	%	Acid dye name	CLASS	CI	Solubility (g/l) 90°C	Xenotest	Washing 60°C	Acid perspirat ion	Alkaline perspirat ion	Water	Sea water	Chlorinat ed water	Dischargeabi lity
	1	GIALLO 2R	GS			5-6 6-7	4-5 4-5 4-5	5 4-5 4-5	4-5 4-5 4-5	4-5 4-5 4-5			
	1	BORDEAUX B	GS	MIX	100	6 5 4-5	4-5 4-5 5	4-5 4-5 4-5	4-5 4-5 4-5	4-5 5 5	4-5 4-5 4-5		1
	1	BLU 4R	GS	277	80	5-6 5 4-5	4-5 4 4-5	4-5 4-5 4-5	5 4-5 4-5	4-5 4-5 4-5	4-5 4-5 4-5		2
	1	BLU AFN	GS	264	70	6-7 6 6	4 4 5	5 4-5 5	5 4-5 5	5 4 5	4-5 4 5		
	1	BLU BRL	GS	324	60	6 5-6 5-6	4-5 3-4 4-5	5 3-4 5	4-5 3 4-5	5 3 5	4 3 3-4		1
	1	BLU 2RL (sky blue BR)	GS	62	30	7 7 6	3 3-4 4-5	4 3 4	4 2 3-4	4-5 3 4	4 3-4 4		2
	1	BLU GLF	GS	281	70	6 5-6 5	4 3-4 4-5	4-5 4 4-5	4-5 4 4	4-5 4-5 4-5	4-5 4 4-5		1
	1	BLU AR	GS	260	100	6 5 4	4 4 4-5	5 4-5 4-5	5 4-5 4	4-5 4 4-5	4-5 4 4-5		2
	1	BLU 5R	GS	113	20	6 4-5 4	4 3-4 4	4 3-4 4	4 3-4 3-4	4 3-4 4	4 3-4 3-4		4









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