



## SULPHUR & TINAGAM DYES

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Gammacolor offers three categories of sulphur dyes, mainly blacks:

- Normal sulphur blacks, dyed in reducing bath.  
e.g.:  
8% Nero Zolfo BRO  
4 g/l soda ash  
2 g/l sodium sulphhydrate  
40-50 g/l Anhydrous sodium sulfate
- Nero zolfo RC liquid prereduced  
e.g.:  
18% dye  
1 g/l sodium hydrogen sulphate  
4 g/l soda ash  
40-50 g/l Anhydrous sodium sulfate
- Nero zolfo BM & RC liq. Ecologico  
18% dye  
9% riducente Z  
4 g/l soda ash  
40-50 g/l Anhydrous sodium sulfate

Dyeing is carried out at 90°C for 1 hour, followed by washing and oxidation.

### TINAGAM

TINAGAM dyes belong to vat dyes category ; they are insoluble into water so it's necessary to reduce them with caustic soda and hydrosulfite to dye them. Additions of chemicals are carried out according to the following table.

	%DYE	L.R. 1:20	L.R. 1:10	L.R. 1:5
Caustic soda 36Bé (cc/l)	1.5 - 3.0	6 - 7	8 - 10	12 - 14
	3.0 - 4.5	7 - 9	10 - 13	14 - 19
	4.5 - 6.0	9 - 11	13 - 17	19 - 24
hydrosulfite (g/l)	1.5 - 3.0	2.0 - 2.5	2.5 - 3.5	4.0 - 5.5
	3.0 - 4.5	2.5 - 3.0	3.5 - 5.0	5.5 - 7.0
	4.5 - 6.0	3.0 - 4.0	5.0 - 7.0	7.0 - 10.0

<b>SULPHUR</b>	<b>%</b>	<b>name</b>	Xenotest	rubbing	Boiling with peroxide	chlorine	Boiling with caustic soda	washing 40°C	mercerization
	8	NERO BRO	6-7	4	3-4	1	3-4	5	4-5
	18	NERO RC liq. Eco.	6-7	4	4	1	4	5	4
	18	NERO RC liq.	7	4	4	1	4	5	4
<b>TINAGAM</b>									
	3	BLU TINAGAM R	6	4	3	3	4	5	3
	5	NERO CARBONE CLG	6-7	4	3-4	3	4-5	5	3



**GAMMACOLOR**

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