GAMMACOLOR

DIRECT DYES

DIRETTI & DIRETTI LUCE GAMMACOLOR DIRECT DYES

Gammacolor Direct dyes (Diretti and Diretti Luce) are used on cotton and other cellulosic fibers with easy (direct) application methods.For this reason they play an important position in dyeing of textiles; In fact even if they don't own great wet rubbing fastness, they show very good light fastness and also all the other fastness values are good.

APPLICATION METHOD:
Dyeing with Gammacolor Diretti and Diretti Luce dyes should be performed as follow:
Prepare a solution of:
-X% Direct dye
-0,2% Sodium Carbonate & Phosphate (eventually)
-0,5% solubilizing for direct dyes (eventually)

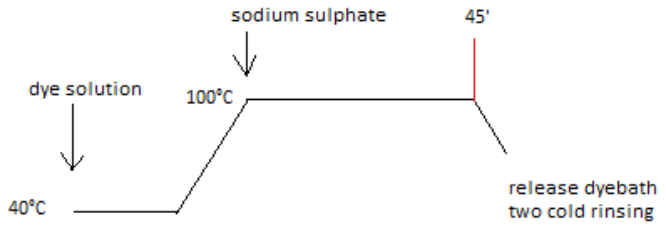
Bring the temperature at boiling point while stirring.
Add that solution to the warm dyebath (40°C).
Start dyeing process bringing the temperature at 98°-105 °C.
Add from 15(below 3% direct dye) to 30 g/l (over 3%) of sodium sulphate anhydrous.
Keep on dyeing for 45-60 minutes.
Lower the temperature and release the dyebath.
Make two cold rinses

Treatment with fixer
When it's needed to improve wet rubbing fastness and washing fastness of Gammacolor direct dyes
You may treat the dyed and rinsed material with:

- 1-3% Gammafix TN
- 2 ml/l Acetic acid 80% (pH 5-6)

Cold treatment for 25 minutes; then centrifuge without rinsing. Dry.

Shade card
Fastness are shown with 3 numbers, indicating, respectively: dye fading; staining on cotton; staining on wool.
Dischargeability was evaluated after treatment with Rongalite applied in neutral and alkaline printing paste.

EXHAUSTION METHOD: % solubilized Direct dye 15-30 g/l Sodium sulphate Start dyeing process at 40°C.Add the dye solution; rise up temperature at 100°C. Add sodium sulphate.After 45' lower the temperature and release dyebath. Rinse twice with cold water.	

Note: two dye percentage values are reported for each dye. The top one is a reference for the fastness values indicated, the bottom one refers to the attached dyed fabric.
N.b: the fastness values reported are indicative and do not constitute a guarantee.

Dyes suitable for simultaneous dyeing and bleaching:

- Giallo diretto luce R
- Giallo diretto luce 4GL
- Giallo diretto luce PG
- Giallo diretto luce 4RL
- Arancio diretto luce EGL
- Scarlatto diretto luce B
- Rosso diretto luce 3B
- Blu diretto luce 4GL
- Blu diretto luce BRR
- Blu diretto luce GLF
- Turchese diretto luce G
- Verde diretto luce 2BLL
- Bruno diretto luce BL
- Scarlatto diretto 4BS

DYES	%	NAME	CI	Solubility (g/l)		Migrating power	Xenotest 1/12 1/3 1/1	water	Sea water
				60° C	90° C				
			washing 40°C	rubbing		Acidic perspiration	Alkaline perspiration	Discharge ability	
				dry wet				neu	Alkal.
	1	GIALLO B	28	25	40	2	6 5 4-5	4 3-4 4-5	4 4 5
			4 3-4 4-5	4-5 3-4		4-5 4-5 5	4-5 4-5 5	1	1
	1	CRISOFENINA G	12	15	20	4-5	4-5 4 3-4	2 2-3 1	2-3 3 1-2
			1-2 4 2	4 3		2-3 3-4 2	2-3 3-4 2	4	2-3
	1	Giallo PG	142		50		5-6 6 6	4 4 -	
			4 3 -	5 3-4		4-5 5 -	4-5 5 -	3	1-2
	1	Giallo VG 400%	157				4 4-5	3-4 3-4 2	
			3 5 2-3	5 4-5		3-4 4 1-2	3 4-5 1-2		

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				60° C	90° C				
			washing 40°C	rubbing		Acidic perspiration	Alkaline perspiration	Discharge ability	
				dry wet				neu	Alkal.
	1	Giallo 5G	27	12	15	3-4	4-5 3-4 3	4 3-4 4-5	4-5 4-5 4-5
			3-4 3-4 4-5	4-5 3-4		4 4-5 4-5	4 3-4 5	1-2	2
	1	Giallo 4GL 200%	44	25	30	4-5	4-5 4 3-4	4 R 3 4-5	4 R 4 4-5
			3-4 3-4 4-5	4-5 3-4		3-4 4-5 5	3-4 3-4 4-5	4	3
	1	GIALLO R	50	16	16	4-5	6-7 5-6 5	3-4 4 2	4 4 4
			3 4-5 3-4	4-5 4		4 4-5 2	4 5 2	5	4-5
	1	GIALLO RL	86	50	80	3-4	5-6 5-6 5	4-5 3-4 4	4-5 4 4-5
			4-5 3-4 3	5 3-4		4-5 3 3	4-5 3 3	4	2

DYES	%	NAME	CI	Solubility (g/l)		Migrating power	Xenotest 1/12 1/3 1/1	water	Sea water
				60° C	90° C				
			washing 40°C	rubbing		Acidic perspiration	Alkaline perspiration	Discharge ability	
				dry wet				neu	Alkal.
	1	GIALLO 4RL	106	50	60	3	7 6 5	4-5 3-4 3	5 4-5 4
			5 3-4 3-4	5 4		5 4-5 4	5 4 4	1	1
	1	Arancio F5GL	46	50	50		4-5 5-6 6	4 2 3-4	4 3-4 5
			3-4 2-3 4	5 4		4 2-3 4-5	4 2-3 4-5	4-5	2-3
	1	Arancio ARL	mix	45	70	3	5-6 5-6 5-6	4-5 3 4	4 3-4 4
			4 3-4 4	4-5 3-4		4-5 3 4	4-5 3 4	3-4	2-3
	1	ARANCIO WS	102	55	60	4	3-4 3 2-3	4-5 4 3	4 4-5 3
			3-4 4-5 2-3	5 3		4 3-4 2	4 4-5 2	3-4	3

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				60° C	90° C				
			washing 40°C	rubbing		Acidic perspiration	Alkaline perspiration	Discharge ability	
				dry wet				neu	Alkal.
	1	ARANCIO F2GL	39	32	45	2-3	6-7 6 4-5	3-4 2-3 4	4 3-4 4-5
			3-4 3 4-5	4-5 4		4 3-4 4-5	4 3-4 4-5	3	2
	1	ARANCIO 3GDL	57	50	65	5	6-7 6 5-6	4 3-4 4	3 2 4
			3-4 4-5 4-5	4-5 4		3-4 1-2 3-4	3-4 1-2 3-4	5	4-5
	1	ARANCIO EGL	34	25	30	2-3	5-6 5 4-5	3 3 4	3-4 3 3-4
			4-5 3 3	4-5 2		4 3-4 4	4 3 3	3	2
	1	ARANCIO 3R	37	36	45	2	5-6 5 4	4 2-3 4	4B 3-4 4
			4 3 5	4-5 3-4		4 3-4 5	4 3-4 5	2-3	2-3

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				60° C	90° C				
			washing 40°C	rubbing		Acidic perspiration	Alkaline perspiration	Discharge ability	
				dry wet				neu	Alkal.
	1	BRUNO BRL/N	mix	30	35	2-3	6 5-6 4-5	4-5 4 4	4-5 4 4
			4 4-5 3-4	4-5 3		4-5 4 3-4	4 4 3-4	3	2
	1	BRUNO GGL	115	36	36	2	5-6 5 3-4	4-5 2-3 4-5	4-5 3-4 4.5
			4 3 4-5	4 3		4-5 2-3 4-5	4G 3 4-5	3-4	2
	1	BRUNO RL	116	30	50	3-4	6 5-6 4-5	4 3 3	4 3-4 3-4
			4-5 3-4 3	4-5 2		4 3-4 4	4 3 4	3-4	2-3
	1	BRUNO BL	103	50	75	3-4	6-7 6 5	4 3-4 4-5	4 4 4-5
			4 4 5	4 2-3		4-5 3 4-5	4 3 4	3-4	2

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				60° C	90° C				
			washing 40°C	rubbing		Acidic perspiration	Alkaline perspiration	Discharge ability	
				dry wet				neu	Alkal.
	1	BRUNO 3R	111	50	50	2	6-7 5-6 4-5	5-4 1-2 2-3	3-4 2 3
			3 2-3 4-5	2-3 2		4 1-2 3	4 1-2 3	2	2
	1	BRUNO M/NB	MIX	30	30	2	4-5 3-4 2-3	4 4-5 3	4 4-5 3-4
			4 4-5 3	4 3		4-5 4 3-4	4 3-4 2	2	2
	1	Bruno BRC	Mix	25	30	3	5-6 5 3-4	4 2-3 3-4	4G 4 4-5
			3 2-3 4-5	4-5 3-4		4G 2 4-5	4 2 4-5	4-5	4-5
	1	Bruno BRL corrodibile	Mix	45	60	5	5-6 5 4-5	3-4 3 3	3 3 3
			3 4-5 4			3 2 3	3 2 3	4-4	4-5

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				60° C	90° C				
			washing 40°C	rubbing		Acidic perspiration	Alkaline perspiration	Discharge ability	
				dry wet				neu	Alkal.
	1	Bruno GTL	218						
	1	Bruno BRK-N	mix	25	30	2	5 4-5 4	2-3 2-3 1-2	3 3-4 2-3
			3 2-3 4-5	4-5 3-4		4 3-4 5	4 3-4 5	2-3	2-3
	1	Scarlatto B	89	50	50	3	4-5 4 3	4 3 3-4	4 4 4-5
			3-4 3 4-5	4-5 3		4 3-4 3-4	4 3-4 4	3-4	3-4
	1	Scarlatto 4BS	23	20	20	3	3-4 3 2-3	3-4 3 4	3-4 3 4
			3-4 3 4-5	3-4 3		4 3 3-4	4 3 4	4-5	4

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				60° C	90° C				
			washing 40°C	rubbing		Acidic perspiration	Alkaline perspiration	Discharge ability	
				dry wet				neu	Alkal.
	1	Scarlatto 8RW	MIX	25	30	3	4 3-4 3	4 4 3-4	4 4 4
			3 4-5 3	**3-4 3**		**4-5 4-5 3**	**4-5 4 3-4**	**3-4**	**2-3**
	1	Scarlatto FGG	224	30	50	2	3-4 3-4 2-3	4-5 3 5-4	4-5 3-4 3-4
			4-5 3 4	**4 2**		**3-4 3 3-4**	**3 2-3 3-4**	**3**	**3**
	1	Rosa 2BL	75	35	38		3 3-4 4-5	4 3-4 4-5	4-5 3-4 5
			3-4 4-5 5			**4-5 3-4 5**	**4-5 3-4 5**	**5**	**5**
	1	Rosa B	9	30	40		3 3-4 4-5	4 3-4 4-5	4-5 3-4 5
			3-4 4 5			**4-5 3-4 5**	**4-5 3-4 5**	**5**	**5**

DYES	%	NAME	CI	Solubility (g/l)		Migrating power	Xenotest 1/12 1/3 1/1	water	Sea water
				60° C	90° C				
			washing 40°C	rubbing		Acidic perspiration	Alkaline perspiration	Discharge ability	
				dry wet				neu	Alkal.
	1	ROSA LR	227	50	60	2	3 3 2	3-4 2-3 3	4 2-3 3
			4-5 3-4 3	4-5 2-3		2 1-2 2	2 1-2 2	2	2
	1	Rosso F4BL	212	30	30		5 5-6 6	4-5 3-4 4	4 3-4 3-4
			4-5 4 4			3-4 2 3	3-4 2 3	4-5	4-5
	1	ROSSO 3B	80	36	45	2	5 4-5 3	4B 2-3 4	3-4G 3-4 4-5
			3 3 4-5	4-5 4		3G 2-3 4-5	4G 2-3 4-5	3-4	3-4
	1	ROSSO 4B 200%	81	40	40	2	5 4-5 4	2-3 2-3 1-2	3 3-4 2-3
			1-2 4-5 1-2	5 3-4		3 2-3 1	3 3 1	4-5	4-5

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				60° C	90° C				
			washing 40°C	rubbing		Acidic perspiration	Alkaline perspiration	Discharge ability	
				dry wet				neu	Alkal.
	1	ROSSO RWL	243	50	60	3	6 5 4	4 3-4 3-4	4 3-4 3-4
			4-5 3-4 4	4 3		2-3 2 2	2-3 2 2	3	3
	1	ROSSO 6BL	79	12	16	3	6 5-6 5	3-4B 2-3 4	3 B 3 4
			3B 2-3 4-5	4-5 3-4		4B 2-3 4-5	3- 4B 2-3 4-5	4-5	4-5
	1	Bordò 3BLE	Mix	30	30	3	6 5-6 5	4 3 1-2	4 3-4 2
			3 4-5 2	4-5 3-4		4-5 4 3-4	4 4 3-4	3	2
	1	BORDEAUX B/NB	MIX	30	30	5	4-5 4 3-4	2-3 2-3 1	3 3 2
			2 2-3 2	4 3		3 2-3 2	3 3 2	4-5	4-5

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				60° C	90° C				
			washing 40°C	rubbing dry rubbing wet		Acidic perspiration	Alkaline perspiration	Discharge ability neu	Discharge ability Alkal.
	1	BORDEAUX BL	mix	30	30	3	6 5-6 5	4 3 1-2	4 3-4 2
			3 4-5 2	4-5 3-4		3 3 1-2	3 3-4 1	2-3	2
	1	RUBINO BL	83.1	30	40	2-3	6-7 6 5-6	4 3-4 3-4	4 3-4 3-4
			4-5 4 3-4	4 1-2		2 1-2 2	2 1-2 2	3	3
	1	VIOLETTO 2RBL	mix	20	25	3-4	4-5 4 3-4	3 2-3 4	3-4 2-3 3-4
			3-4 2-3 3-4	4 2		2-3 1-2 2-3	3 2-3 3	3-4	3-4
	1	VIOLETTO BL	51	10	13	4-5	4 4 3	3-4 1-2 4	3B 2 4
			2-3 2 4-5	3-4 2-3		3 2 4	3-4 3-4 4	4-5	4-5

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				60° C	90° C				
			washing 40°C	rubbing dry wet		Acidic perspiration	Alkaline perspiration	Discharge ability neu	Discharge ability Alkal.
	1	Violetto RLL new	mix	30	40		3 3-4 4-5	4 3-4 4-5	4-5 3-4 5
			3-4 4 5				4-5 3-4 5	4-5 3-4 5	5
	1	VIOLETTO 3BL	mix	10	13	4	4-5 4 3	3-4 2 4	3B 2 4
			3 2-3 4-5	3-4 2-3		3 2 3-4	3-4 3-4 4	4-5	4-5
	1	VIOLETTO 4BL	66	10	15	2-3	5-6 4-5 4	3B 2 2-3	3B 2-3 3-4
			3 2-3 4	4 2-3		2- 3B 1-2 4-5	2- 3B 1-2 4-5	3	2-3
	1	VERDE B/NB	MIX	20	25	4	5 4-5 4	3-4 4 3	4 4 3-4
			3-4 4-5 3	4-5 3-4		3 4-5 3	3 4-5 3	4	3-4

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				60° C	90° C				
			washing 40°C	rubbing dry wet		Acidic perspiration	Alkaline perspiration	Discharge ability neu	Discharge ability Alkal.
	1	VERDE 5GL	28	12	20	3-4	6-7 6 5-6	4B 3-4 3-4	4B 3-4 4
			3-4G 3 5	4-5 3		4B 3 4	4B 3-4 4	2	2
	1	VERDE 2BLL	26	17	25	2-3	5 4-5 3-4	4-5 2-3 4	4-5 3-4 4-5
			4 3-4 4-5	4-5 3		4-5 1-2 4-5	4-5 2 4-5	3	2-3
	1	VERDE 5B	mix	17	20	3	5-6 5 4-5	4-5 4 4	4-5 4 4-5
			4 4 4-5	4-5 3		5 3 3	4-5 3 3	1	1-2
	1	TURCHESE G	86	30	50	4	6 5-6 4	2-3R 2 2-3	3R 2 3-4
			1-2 4 5	4 2		2-3 1-2 4	2-3 1-2 4	3-4	3

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				60° C	90° C				
			washing 40°C	rubbing		Acidic perspiration	Alkaline perspiration	Discharge ability	
				dry wet				neu	Alkal.
	1	TURCHESE FBL	199	40	55	4-5	6-7 6 5	3 2 3	4 3 3-4
			2-3 3 5	4-5 2-3		3-4 3 4	3-4 1-2 4	4-5	2
	1	BLU GL	293	20	25	3	6-7 6 5-6	3 1-2 3-4	3-4 2 3-4
			1-2 1-2 5	4 2-3		3-4 3 1-2	3 3-4 1-2	1	1-2
	1	Blu K-G	mix	20	25	3	5 4-5 4	4 2-3 3-4	4 4 4-5
			3-4 3 4-5			4 2-3 4-5	4 2 4-5	4-5	4-5
	1	Blu FRG	Mix	40	50	3	5 5 4-5	4 2-3 4	4 3-4 4
			4 3 2			4-5 3-4 3-4	4 3-4 3	3	3

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				60° C	90° C				
			washing 40°C	rubbing		Acidic perspiration	Alkaline perspiration	Discharge ability	
				dry wet				neu	Alkal.
	1	Blu TLE	mix	20	25	3	5-6 5 3-4	4 2-3 3-4	4 4 4-5
			3 2-3 4-5			4 2 4-5	4 2 4-5	4-5	4-5
	1	BLU F2G	225	20	25	3-4	5 4-5 3	1-2 1 2-3	2 1 2-3
			1 3 4-5	4-5 3		2 1 2	2 1 2	3-4	3-4
	1	BLU BGL	98	20	20	3	6 5-6 3-4	3 1 2-3	3G 2 3-4
			3 1-2 4	4-5 3-4		3 2 3	3 2 3	3	3
	1	BLU RGB	80	40	50	3	5-6 5-6 5	4 2-3 4	4 3-4 4
			4 3 2	4-5 3-4		4-5 3-4 3-4	4 3-4 3	4	4

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				60° C	90° C				
			washing 40°C	rubbing		Acidic perspiration	Alkaline perspiration	Discharge ability	
				dry wet				neu	Alkal.
	1	BLU FGL 400%	90	70	90	3-4	6 4-5 4	4 1-2 3	4 2 3
			3 2-3 5	5 3-4		3-4 1-2 3-4	3-4 1 3-4	1-2	1
	1	BLU GLF	85	50	75	3	6 5 3-4	4-5 2 3	4-5 2 3
			4 2-3 5	4-5 2-3		3 1-2 3	3-4 2 3	4-5	4-5
	1	BLU 4GL 300%	78	20	25	2-3	5 4-5 3-4	4 2-3 3-4	4 4 4-5
			3-4 2-3 4-5	4-5 3-4		4 2 4-5	4 2 4-5	4-5	4-5
	1	BLU BGRL	Mix	25	30	4	6 5-6 6	3 2-3 3	3-4 3 3-4
			3 4 4-5	4-5 3-4		3-4 3-4 2-3	3-4 3 1-2	4	3-4

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				60° C	90° C				
			washing 40°C	rubbing		Acidic perspiration	Alkaline perspiration	Discharge ability	
				dry wet				neu	Alkal.
	1	BLU BRR	71	25	30	3	5-6 5 3-4	4 2-3 3-4	4G 4 4-5
			3 2-3 4-5	4-5 3-4		4G 2 4-5	4 2 4-5	4-5	4-5
	1	BLU 2BR	222	20	25	3-4	6-7 5-6 4-5	4 2 4-5	4 4 5
			4 2-3 5	4-5 3		4-5 3 5	4 3 5	4	4
	1	Blu 4BL	200	50	50		3-4 5 5	4-5 5	
			4-5 4			4-5 5	4-5 5	2-3	2-3
	1	Blu BFF	mix	20	25	3	5 4-5 3	2 1 3	3 2 3
			1-2 1-2 4-5			3 2 2	3 2 2	2	2

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				60° C	90° C				
			washing 40°C	rubbing dry	rubbing wet	Acidic perspiration	Alkaline perspiration	Discharge ability neu	Discharge ability Alkal.
	2	BLU NERO DIAZO BNB	299	17	17	1-2	3-4 3 2-3	4-5 4 3-4	4 4 3
			4-5 4-5 2-3	4-5 2-3		4-5 3 2	4 3-4 2	4	3
	1	GRIGIO CGLL 250%	112	20	30	2-3	6-7 6 5	4 3 3	4 3 3-4
			4 3-4 2-3	4-5 3		3 3 3	3 2-3 2-3	5	4
	1	GRIGIO 4GL 300%	62	30	40	3	6 5 4-5	4-5 2 2-3	4 2 3
			4 3 5	4-5 3		4 2 3-4	3-4 1-2 4	2	2
	1	GRIGIO NGL	113	30	50	2-3	7 6 5	4 4 5	4-5 4-5 5
			3 2-3 5	5 3		4-5 3-4 4-5	4 2 4	2-3	2-3

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				60° C	90° C				
			washing 40°C	rubbing		Acidic perspiration	Alkaline perspiration	Discharge ability	
				dry wet				neu	Alkal.
	1	GRIGIO RN	Mix	30	40	3	5 5 4-5	4 4 1-2	4 4 2-3
			3-4 4-5 3	4-5 3-4		3-4 3-4 2	3-4 4-5 1-2	4	3-4
	1	NERO L 200%	51	10	10	4-5	4-5 4 3	3-4 3 4	3-4 3-4 4-5
			2 1-2 3-4	4-5 3-4		2-3 2 2-3	2-3 1-2 2	4	3
	3	BENZONEROLO 800% EXTRASOLUBILE	22	-	-	2-3	3-4 3 2	4-5 4-5 4-5	4-5 4-5 4-5
			4-5 2-3 4-5	4 2-3		4-5 4-5 4-5	4-5 3 4	4-5	2-3
	3	NERO G CONC	19	35	35	2	4 3-4 2-3	4-5 4-5 4-5	4-5 4-5 4-5
			4-5 2-3 4-5	4 2-3		4-5 4-5 4-5	4-5 3 4	4-5	2-3

DYES	%	NAME	CI	Solubility (g/l)		Migrating power	Xenotest 1/12 1/3 1/1	water	Sea water
				60° C	90° C				
			washing 40°C	rubbing		Acidic perspiration	Alkaline perspiration	Discharge ability	
				dry wet				neu	Alkal.
	2	NERO 80 150%	80	30	45	3-4	4 3 -	4 4 4	4-5 4-5 4
			2-3 3 3				2-3	5	4-5
	6	NERO CA LIQ.	22	-	-	2-3	3-4 3 2	4-5 4-5 4-5	4-5 4-5 4-5
			4-5 2-3 4-5	4 2-3		4-5 4-5 4-5	4-5 3 4	4-5	2-3
	3%	COTONEROL AB 600%	32 (mix)	15	20	1	4 3 2-3	4-5 4-5 3-4	4-5 4-5 4
			4-5 5 3-4	4 2-3		4-5 4-5 4	4-5 4-5 3	5	3
	1	GIALLO FLAVINA 7GFFE 100%	96	-	60	-	3 3 2/3	4 1-2 -	-
			4 1-2 -	5 5		4	4	-	-

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