

# **SATURN YELLOW L4G 150**

#### Illustration on cotton

0,30 % 1,00 %

### Characteristic

C. I. Direct Yellow 44

C. I. No. 29000
 CAS No. 8005-52-5
 Chemical Class Azodye

### **Properties**

Solubility (g/l at 90°C) 30

Dischargeability neutral/alkaline 4/3

Coverage dead cotton +

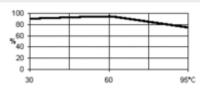
Coverage strippy viscose +

Dyeing at 120°C (30/60 min) -/-

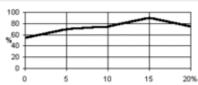
Fastness	cotton						viscose						
standard depth	1/12	1/6	6	1/3	1/1	2/1	1/12		1/6	1/3	1/	/1	2/1
Daylight	3-4	3-4	ļ.	4	4-5	5	3-4		4	4-5	5	5	5
Light-Xenotest	3-4	4	4		5	5	4	4	1-5	5 4-5		5	5
standard depth 1/1	aftertreated			untreated			aftertreated			untreated			
Water	4R	5	5	4R	3	4-5	4R	4-5	5	3-4	R	3	4-5
Washing 40°C	4	3-4	5	3-4	3-4	4-5	4-5	3-4	4-5	4		3-4	5
Washing 60°C	3-4RD	2	4	3	2	4	3-4	2	4-5	3		2	4-5
Domestic laundering A1S	3-4	1	4-5	2-3	1	4-5	3-4	1	4-5	2-3	3	1	4-5
Perspiration acid	4R	4-5	5	3-4	4-5	5	4-5	4-5	4-5	4		4-5	4-5
Perspiration alkaline	3-4R	4-5	5	3-4	3-4	4-5	5	4-5	4-5	4		4-5	4-5

## **Exhaustion curves**

# Temperature effect



# Influence of electrolyte

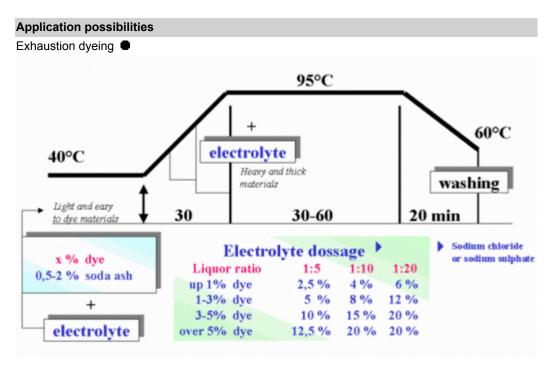




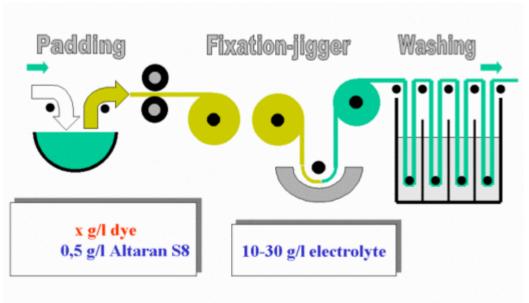


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Pad - Jig

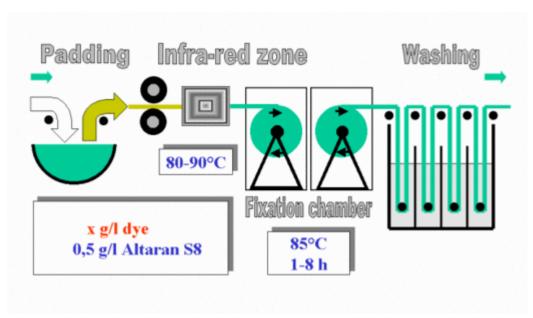


Pad - Roll

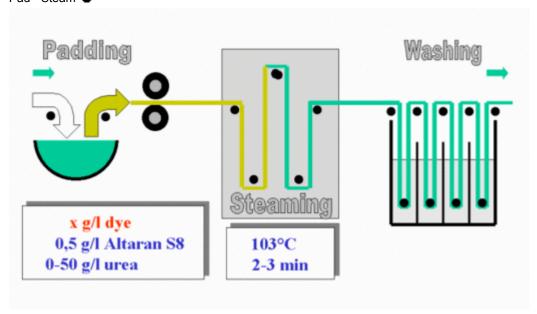








Pad - Steam

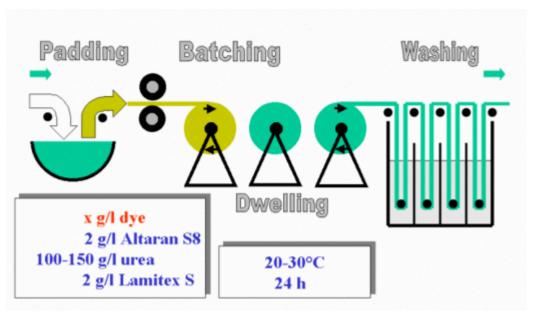


Pad - Batch









■ suitable ● partially suitable ○ unsuitable

### **Testing methods**

### Solubility

ISO/CD 105 Z07-1993

The values express solubility in grams of dissolved dye in one litre of distilled water at 90°C.

### Dischargeability

Dischargeability is expressed by the five-member scale where

5 means - the dye is very well dischargeable

4 means - the dye is well dischargeable

3 means - the dye is suitable for coloured discharge

2 means - the dye is poorly dischargeable

1 means - the dye is not dischargeable

The neutral and alkaline dischargeability of individual brands is assessed so that the dyed fabric is printed with discharge paste, then dried and steamed in a high-speed steamer for 7 min. at 100°C.

## Dead and unripe cotton covering

The brands suitable for dead cotton covering are marked +. The coverage can be improved by the material pre-treatment by means of causticizing or dyeing at temperatures above 100°C.

### Stripy viscose covering

The differences in stripy viscose rayon can be best covered with brands which are marked +.

### Dyeing at temperatures above 100°C.

The dyes suitable for high temperature dyeing are marked +.

# Fastness standards

 Daylight
 ISO 105-B01-1994

 Light Xenotest
 ISO 105-B02-1994

 Water
 ISO 105-E01-1994

 Washing
 ISO 105-C01-1989

 Perspiration
 ISO 105-E04-1994

### The fastness figures in the tables mean:

fastness to light other fastness properties

1 - very poor 1 - poor







2 - poor
 3 - moderate
 4 - fairly good
 5 - good
 2 - moderate
 3 - fairly good
 4 - good
 5 - very good

6 - very good7 - excellent8 - unsurpassed

The letters indicate the following changes in shade:

R - redder D - duller
BI - bluer Br - brighter
Y - yellower S - stronger
G - greener W - weaker

The numbers at individual dye fastness data mean:

First number - change in shade

Second number - staining on the undyed adjacent fabric which is of the same material as the tested sample

Third number - staining on the undyed adjacent fabric

### Affinity dependance on the temperature

The curve shows the dye quantity which exhausts from the bath onto the fibre after 60 min. of isothermal dyeing with addition 1% soda ash and 20% sodium sulphate calc. at the temperature shown on the horizontal axis.

#### Electrolyte influence

The curve shows the electrolyte concentration influence on dye exhaustion from the liquor. The values were obtained in the course of 60 min. of dyeing in a bath containing 1% soda ash and sodium sulphate calc., its quantity is given on the horizontal axis.



