

Illustration on wool / on polyamide



Characteristics

C. I.	Acid Orange 142
CAS No.	55809-98-8
Chemical class	Metal complex azodye

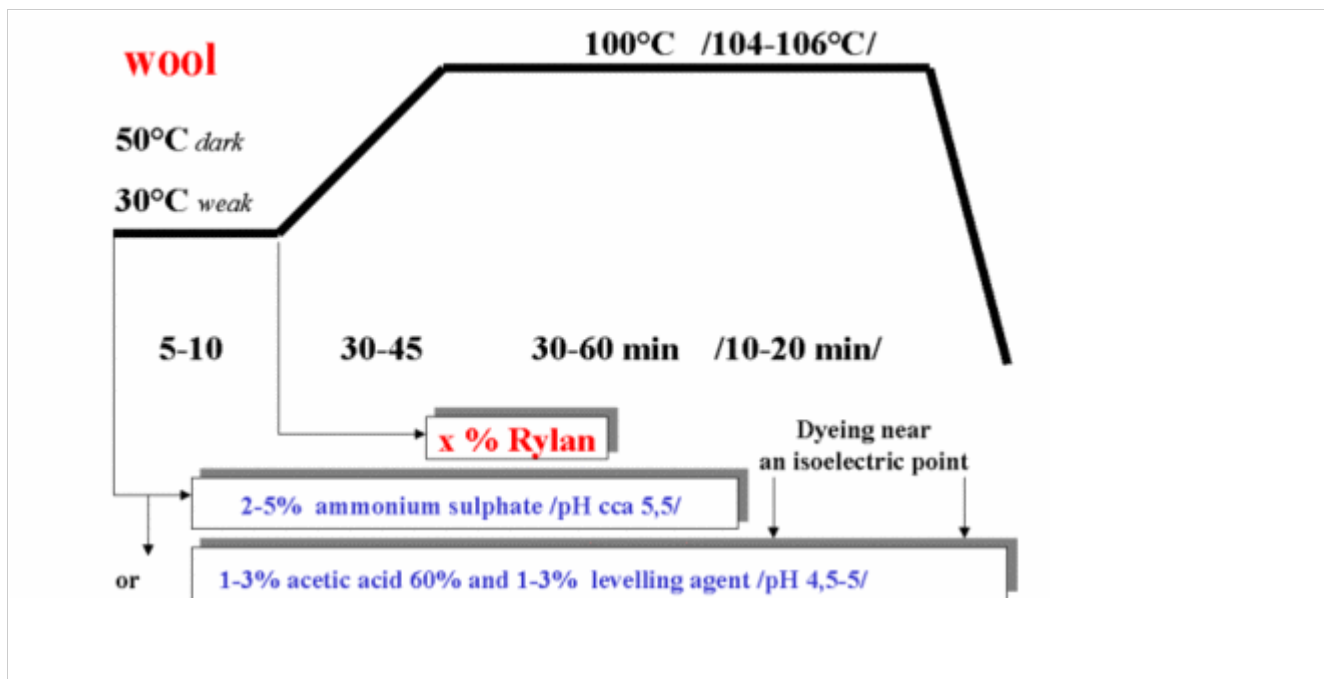
Properties

Solubility (g/l at 25°C)	80
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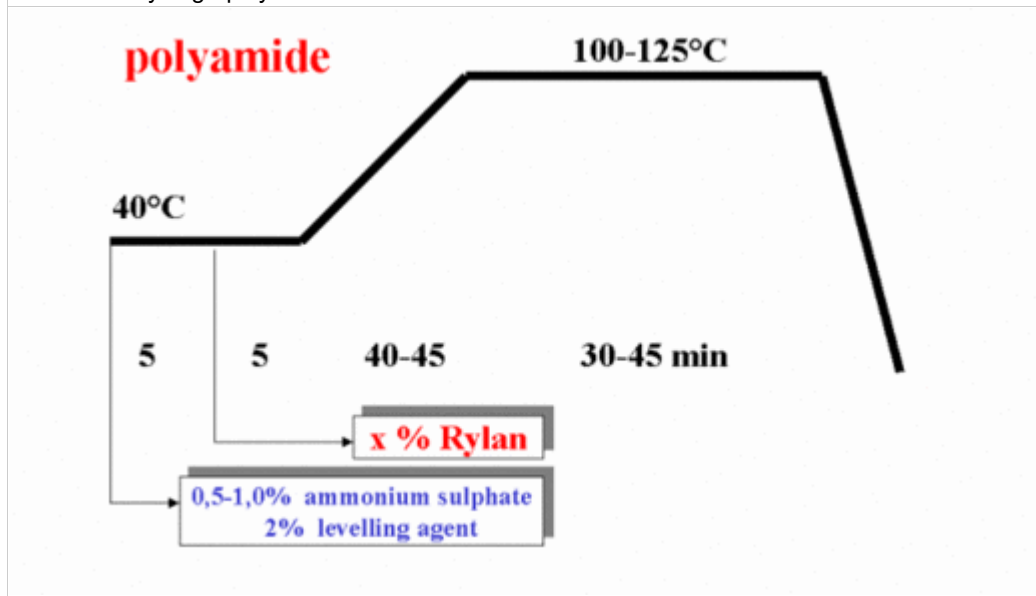
Fastness	wool						polyamide	
standard depth	1/25	1/12	1/6	1/3	1/1	2/1	1/1	2/1
Light Xenotest	4-5	5	5-6	5-6	6	6-7	6-7	7
	wool							
standard depth	1/1							
Water	4-5			4-5			4-5	
Crabbing	4-5			4-5			4-5	
Washing 40°C	4-5			4-5			4-5	
Washing 60°C	4			4			4-5	
Perspiration acid	4-5			4-5			4-5	
Perspiration alkaline	4-5			4-5			4-5	
Rubbing dry							4-5	
Hot pressing wet after 4 h	4-5						4-5	
Milling acid	4-5			4-5			4-5	
Milling alkaline	4-5			4			4-5	
Crossdyeing neutral	4-5			2-3			4-5	
Potting	4			3			4-5	
Decatizing	4							
Dry cleaning	4							
	polyamide							
standard depth	1/1							
Water	4-5			4-5			4-5	
Sea water	4-5			4			3-4	
Washing 40°C	4-5			4-5			4-5	
Washing 60°C	4			4-5			4-5	
Perspiration acid	4-5			4			4-5	
Perspiration alkaline	4			4			3-4	
Rubbing dry							4-5	
Hot pressing wet after 4 h	3-4Y			4-5			4-5	
Swimming bath water	4							
Dry cleaning	4-5							
Nitrogen oxides	4-5							
Dry heat 150°C	4-5			4-5			4-5	

Application possibilities

Exhaustion dyeing - wool ●



Exhaustion dyeing - polyamide ●



● suitable ● partially suitable ○ unsuitable

Testing methods

Light Xenotest	ISO 105-B02-1994
Water	ISO 105-E01-1994
Washing 40°C	ISO 105-C01-1989
Washing 60°C	ISO 105-C03-1989
Sea water	ISO 105-E02-1994
Swimming bath water	ISO 105-E03-1994
Perspiration	ISO 105-E04-1994
Rubbing	ISO 105-X12-1987
Hot pressing	ISO 105-X11-1994
Milling acid	ISO 105-E14-1994
Milling alkaline	ISO 105-E12-1989
Potting	ISO 105-E09-1989
Crabbing	ISO 105-E08-1994
Crossdyeing neutral	ISO 105-X07-1994
Decatizing	ISO 105-E10-1994
Dry cleaning	ISO 105-D01-1993
Nitrogen oxides	ISO 105-G01-1993
Dry heat	ISO 105-P01-1993
<i>The fastness figures in the tables mean:</i>	
<i>fastness to light</i>	<i>other fastness properties</i>
1 – very poor	1 – poor
2 – poor	2 – moderate
3 – moderate	3 – fairly good
4 – fairly good	4 – good
5 – good	5 – very good
6 – very good	
7 – excellent	
8 – unsurpassed	
<i>The letters indicate the following changes in shade:</i>	
R - redder	D - duller
Bl - bluer	Br - brighter
Y - yellower	S - stronger
G - greener	W - weaker
<i>The numbers at individual dye fastness data mean:</i>	
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