

D. K. ENTERPRISE

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DYSOFT – 100

(Textile Chemical)
(SOFTENING WETTING AGENT IN DYE BATH)

DYSOFT – 100 is newly developed assistant. This is good that scouring for synthetic detergent, cotton, and viscose rayon, and desizing, wetting for dyeing, for crease, dispersing level dyeing agent in rotary washer. Especially, DYSOFT – 100 is good for guarding crease. To use cycling equally, this gives high quality finish.

GENERAL PROPERTIES :

APPEARANCE	:	yellowish light color granulated powder
COMPOSITION	:	high polymer compound conc 100%
IONICITY	:	weak anionic
PH (1% Sol'n)	:	7.5 ± 0.5
SOLUBILITY	:	50°C stirring resolution

CHARACTERISTIC :

1. DYSOFT – 100 solves perfectly the problem of crease caused when dyeing and finishing of Tencel. Also, it can be obtained the even rising fine-hair effect by using to Sand-Washing finishing process.
2. When use DYSOFT – 100 to dyeing and finishing process, it can decrease the using quantity of the finishing agent by improvement of touch of dyed fabrics.
3. DYSOFT – 100 solves the problem of crease of cotton knit specially 10's, 20's when dyeing and finishing.
4. DYSOFT – 100 is non-forming type and it increase the operating efficiency of low bath ratio M/C such as M/C etc. by improvement of circulation of the dyed fabrics.
5. DYSOFT – 100 has no a bad influence on the next process because it has the excellent washing-off property.
6. DYSOFT – 100 does not raise colored drip because it is strong for acid, alkali, and sodium chloride.

USE :

DYSOFT – 100 can apply for use as follows:

- washing and bleaching
- fluorescent whitening
- dyeing and finishing

Please add DYSOFT – 100 0.1 – 0.2g/l directly at first.

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EXAMPLE FOR TEST :

1. THE RESULT FOR FOAMING WITH JET DYEING MACHINE

SURFACTANT

Temperature (°C)	DYSOFT - 100	SAMPLE A	ADDITIVE-FREE
CHEMICAL			
40	non-foaming	165	140
60		180	145
80		200	150
100		190	150
120		180	145
135		180	145

CONDITION FOR TEST : DYESTUFF
 : 2.0g/l

IUMABRON BORDEAUX SE-BL

90% CH₃COOH 0.2cc/l
 SURFACTANT 0.2g/l
 LIQUID 1500ml

2. EFFECT OF DYSOFT - 100 AND CHEMICAL STABILITY

(QUANTITY OF USE DYSOFT - 100 : 0.2g/l)

DYSOFT - 100 SAMPLE A SAMPLE B

LEVELING EFFECT

EFFECT FOR CREASE RESISTANCE

PREVENTING EFFECT FOR FIXING OF DISPERSE DYES

STABILITY Na₂Co₄ 80g/l
 (95°C x 10) Na₂Co₄ 20g/l
 Na OH 50% 30g/l

THE RESULT FOR FOAMING AND ANTI-FOAMING BY AIR-BLOW

		DYSOFT - 100		SAMPLE A		SAMPLE B	
QUANTITY OF USE		0.1	0.2	1.0	2.0	1.0	2.0
FOAMING (ml)	30°C	No Foam	No Foam	590	620	615	670
	60°C	- " -	- " -	815	860	845	890
	90°C	- " -	- " -	850	910	870	925
ANTI-FOAMING (Time)	30°C	No Foam	No Foam	1'12"	2'48"	2'39"	3'09"
	60°C	- " -	- " -	5'16"	8'29"	7'54"	9'24"
	90°C	- " -	- " -	9'36"	More 10'	More 10'	More 10'

(1) FOAMING TEST: this is the high of bubble when air blow to liquid 500ml in Messzylinder.

(2) ANTI-FOAMING : this is the time until clearing foaming (above (1)) from surface.

METHOD OF USING :

Though it depends on the kinds of fabric and work out condition. Generally use 0.1 - 0.3% (o.w.f.)

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CAUTION :

Please use it after sufficient mixture in service tank because it is granulated powder.

PACKING UNIT 20 kgs.

please note diluting method for Dyesoft-100 (Which is 100% product) so as to make Dyesoft-05 which is Std. product of 5%.

1. Arrange hot water (80-90 C) for 900 Gms
2. Add to it & Stir Dyesoft-100 for 50 Gms by mixer.
3. Add hot water more 50 Gms after dissolve above item.
4. Total is now 1 Kg.