

NISHANT ENTERPRISE

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FORTE-N

FORTE-N is a specialty product based on emulsifiers specialty chemicals without solvents for rapid scouring and de-sizing of cotton, viscose, polyester and blended yarn, fabric in Jigger, JT-10, Jet dyeing machine, U-tube Jet dyeing machines, winches as well Kier.

FORTE-N is the latest modified version of ACTIWHITE to make it more powerful to obtain optimum utilization of time, money and energy.

FORTE-N is suitable for alkaline and acidic media at an operating temperature up to 130 C.

FORTE-N is an excellent auxiliary for causticizing cotton and blends, particularly for processing units not having mercerisers.

FORTE-N offers unique advantage of imparting excellent penetration in low contact time, making it an ideal auxiliary for **continuous scouring machines**.

Recommended quantity of **FORTE-N** is 0.75 to 1% by weight of material or 5 - 10 gpl depending up on liquor ratio, machine and material. For maximum effectiveness, we recommend full boil temperature along with caustic soda, soda ash, hydrogen peroxide or along with Oxalic Acid, to be decided by the technician. Saving in processing time at full boil can be up to 50% as compared to normal scouring time.

ADVANTAGES :

1. Higher scouring efficiency, higher scouring losses with better absorbency of material.
2. General reduction in processing time by 50%.
3. 100% kitty removal in cotton or blends.
4. Elimination of crease and crow marks in polyester – viscose blends such a gaberdine suiting, swiss cotton, polyester – viscose suiting.
5. Better ground cleaning and better brightness of material due to better scouring.
6. Higher colour yield of material in dyeing.
7. Single bath scouring, and bleaching process.
8. Excellent wetting power of processed material.

NOTES :

1. For heavily sized cloth, prior de-sizing using caustic soda and PENESORB along with soda ash is recommended.
2. Sodium Hypochlorite bleaching can be replaced with hydrogen peroxide bleaching process. Hydrogen Peroxide may be added stepwise to obtain maximum utilization.

As a guide line we recommended the following processes based on experience. Modifications in the process may be effected by the concerned technicians depending up on the equipment, material to be processed.

TABLE – 1

Material: Polyester – viscose suiting, shirting, dress material.

EQUIPMENT	JUMBO JIGGER	JT –10	JET DYEING	U-TUBE JET	CONTINUOUS SCOURING
QTY. OF CLOTH	300 KGS	1200 KGS	125-150 KG	125-150 KG	
QTY. OF WATER	400 LITS	800 LITS	800 LITS	400 LITS	400 LITS
QTY.OF FORTE-N	3 KGS	10 KGS	1.5 KGS	1.5 KGS	5-10 GPL
CAUSTIC SODA	3 KGS	2-2.5 KGS	1 KG	1 KG	5 – 10 GPL
SODA ASH	1 KG	2-2.5 KGS	1 KG	1 KG	5 – 10 GPL
HYDROGEN PEROXIDE	3 KGS	10 –12 KGS	1 KG	1 KG	5 – 10 GPL
TIME	3 – 4 ENDS	3 – 4 ENDS	30 MINS	30 MINS	
TEMP. C	FULL BOIL	FULL BOIL	110 C	110 C	FULL BOIL

Note : Hydrogen Peroxide may be added stepwise after two ends, if desired.

To be followed by hot wash, cold wash and acetic acid wash.

FOR **COTTON X VISCOSE TERRY VOIL**, REPLACE CAUSTIC SODA BY SODA ASH.

FOR **RAYON** USE ONLY **FORTE-N** WITHOUT CAUSTIC SODA, SODA ASH AND HYDROGEN PEROXIDE AT FULL BOIL TEMPERATURE,

FOR **COTTON X VISCOSE X POLYESTER**, REPLACE CAUSTIC SODA BY SODA ASH. INCREASE QUANTITY OF **FORTE-N** TO 2% BY WEIGHT OF FABRIC, AND HYDROGEN PEROXIDE IN EQUAL QUANTITY. USE OF CAUSTIC SODA MAY BE PERMITTED DEPENDING UPON THE CONSTRUCTION OF FABRIC FOR HIGHER ABSORBENCY AND BRIGHTNESS.

FOR COTTON DRILL, 2 X 2 MATERIAL, 40 X 40 POPLIN :

Quality	Heavy drill cotton 36 to 52 kgs per 100 mts of fabric	2 x 2 RUBIA	40 x 40 COUNT POPLIN
Machine:	JT-10 **	JT-10	JT-10
Quantity	1200 kgs	1200 kgs	1200 kgs
01. Grey mercerizing	Optional	Optional	Optional
02. Hydrochloric acid Qty	4 lits	3 lits	3 lits
Time	2 ends	2 ends	2 ends
03. Hot Wash	1 end	1 end	End
04. Caustic boiling & Bleaching :			
Caustic Soda	36 kgs	48 kgs	48 kgs
Soda Ash	12 kgs	Nil	Nil
FORTE-N	12 kgs	12 kgs	12 kgs
Sodium Silicate	6 kgs	6 kgs	6 kgs
Hydrogen Peroxide *	24 kgs	24 kgs	24 kgs
Time	3 to 6 ends	8 – 10 ends	10 – 12 ends
Temperature C	Full Boil	Full Boil	Full Boil
5. Cold wash	2 ends	2 ends	2 ends
6. Hot wash	1 end	1 end	1 end
7. Acetic Acid Wash	1 end	1 end	1 end

***Hydrogen Peroxide may be added in steps.**

**** FOR HEAVY COTTON DRILL, JUMBO JIGGER MAY BE USED WITH FORTE-N.**

IF GREY MERCERISING IS NOT OPTED FOR, MERCERISING CAN BE DONE AFTER CAUSTIC SODA BOILING, FOLLOWED BY COLD WASH, HOT WASH, COLD WASH AND ACETIC ACID WASH.

Note : The information stated herein is given in good faith and based on our experience with the product and is without any warranty.