

DS 100

detergent –wetting-emulsifier in over flow & jet

Composition Mixture of surfactants

Typical data

Appearance almost colorless, limped liquid

Density at 20 °C.....1. g/l

Ionic charge anionic – nonionic

pH 10g/l solution7.5

physical and chemical properties

Solubility in water at 20 °C	pseudo-soluble
Stability to hard water	very good up to 20 °dH
Stability in caustic soda	up to 12° Be
Compatibility	not compatible with cationic and strongly acid products
Storage condition	Very good in normal room conditions for 12 months

DS 100 is a liquid product designed to allow the quick wetting of fabrics ,especially for treatment of continuous lines. Foam formation is minimum and no importance.

DS 100 is perfectly stable in caustic soda up to 12 °Be and resist in bleaching bath with hydrogen peroxide.

Therefore it may be use in the following operations

-Scouring of cellulosic, synthetic fibers and their blends on traditional and continuous washing machines;

-Bleaching of fabrics –of cotton and mixed –through different chemical auxiliaries – i.e enzymatic desizing and /or alkaline bleaching with hydrogen peroxide (pad batch and bad steam)

-Several post treatment of tops, threads on different fiber i.e. washing and cleaning .soaking, stain removal, soaping .etc.

Preparation of the solution

Solution are prepared by simple dilution, under stirring of DS 100 in water at room temperature
5-10 % stock solution are stable

Amount to be used

Amounts are from 0.5-2 g/l for discontinuous processing up to 4-8 g/l for continuous operation in strongly alkaline bath.

Her below we report the complete wetting times for a raw cotton fabric at different concentration amounts of DS100 and in baths with increasing caustic soda content (at 25 °C)

DS 100	IN WATER	IN NaOH 5° Be	IN NaOH 10°Be
0.5 g/l	80	3	3
1 g/l	20	1	2
2g/l	10	25	45
4g/l	2	10	25
8g/l	<2	2	10
16g/l	<2	<2	5