



MapleSolutions

3019 Lake Road, Dollard Des Ormeaux, QC, H9B 2R3 Canada - Tel : 1 (514) 472 0094 www.maplechemicals.com

TECHNICAL BULLETIN

MA-SCOUR AIN

STATEMENT OF USE

Ma-Scour AIN is a multifunctional auxiliary for the dyeing of cellulosic fabrics. Ma-Scour AIN is a low foaming specially developed product for the one-bath washing and dyeing of greige cotton fabrics and their blends.

TYPICAL PROPERTIES

Chemical Composition	Blend of surfactants and dispersants
Ionic Nature	Anionic
Appearance	White emulsion
Solubility	Emulsifies in water
pH (10%)	7.5 to 8.5
Density, lb/gal	Approx. 9.2
Stabilities	Stable to hard water, acid, alkali and salts in usual concentrations.
Compatibility	Compatible with nonionic and anionic products. (Its use with cationic products will cause precipitation.)

ADVANTAGES

Ma-Scour AIN is a low foaming compound product for the one-bath washing and dyeing of raw cotton as well as for special applications in cellulose dyeing.

Its main field of application is the dyeing of knitted fabrics, garments and packages consisting of raw cotton with the most important dyestuff groups, especially substantive, reactive and vat dyes.

The product is also suitable for critical dyestuffs (e.g. turquoise types).



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Ma-Scour AIN has simultaneous wetting, sequestering (good calcium binding power), detergent, emulsifying, dispersing and crease-preventing properties. When used in the dye bath a certain coverage of differences in affinity, minimizing of sulphur as well as an improvement of the reproducibility are realized.

In package and warp beam dyeing Ma-Scour AIN improves additionally the penetration and enables a higher compactness of bobbins (the product has a certain leveling effect on direct, reactive and sulphur dyes). It has no negative influence on the shade (particularly at reactive dyeings). The product can, of course, also be used for cellulose blended with other fibres (e.g. PES/CO).

APPLICATION

Dyeing of raw cotton:

For the dyeing of raw cotton, alone or in mixture with PES, Ma-Scour AIN is recommended at concentrations of 1.5-3.0g/l depending on the degree of soiling of the cotton and the PES (when processing blends) as well as, on the expected problems with creases. The liquor ratio and water quality should also be considered when determining application amounts.

The product should be dosed at least 10 min. before the dyestuff is added, at a temperature as high as possible (at least 40°C).

When dyeing raw cotton and its blends the dyeing temperatures should generally be as high as possible. In the case of reactive dyes, hot dyes are preferred. The dyeing temperature should not drop below 50°C.

On account of the introduced carbonate hardness during dyeing of raw cotton in deep shades, it may sometimes be necessary to use 10–25% more alkali and salt than usual.

Sized goods should be desized beforehand, as woven cotton fabrics generally contain insoluble starch size or other sizes difficult to wash out.

When dyeing wound packages and beams a deaerator (e.g. 0.3g/l Transferin® 4454) should be added (liquor direction inside/outside) at least 5min. before Ma-Scour AIN is fed.

In the case of PES/CO dyeing, the addition of low amounts of a separate anionic dispersing agent is recommended.

In view of the problems regarding spin finishes on Spandex containing fabrics, a separate prewashing would be advisable for CO/Spandex blends with high Spandex content. Spandex

content of up to 5% generally does not cause any problems, else the addition of 2g/l Ma-Sol 937 to the dye bath may help. In such cases only an amount of 1-2g/l Ma-Scour AIN is necessary. In case of heavily oil-soiled goods, especially goods with a high oil content, a short prerinsing at 40°C is recommended.

If a prerinsing process is carried out for 10min. at 60°C with 0.5g/l Ma-Scour AIN, the amount of Ma-Scour AIN in the dye bath may even be reduced to 1g/l.

As the successful dyeing of raw cotton mainly depends on the quality of the fiber as well as on the dyestuff, preliminary lab trials are advisable for each new article.

PACKAGING

Available in returnable drums.

PHYSIOLOGICAL DATA

For Industrial Use Only: The usual precautions in keeping chemicals from the eyes and skin and avoiding ingestion and prolonged inhalation of vapors should be observed.

While every care has been taken to ensure the accuracy of the information contained in this publication, no warranty or liability will be accepted as the conditions of usage are beyond our control. Product specifications can be provided upon request.

Our Technical Sales Department is available to assist customers in preparing formulae and procedures to suit their specific requirements. Production trials are recommended to determine effectiveness. Process information submitted by our customers will be treated in confidence.