



TECHNICAL BULLETIN

MA-SOFT NYI

code : 05753

MA-SOFT NYI. is a nonionic emulsion of blended fatty esters formulated to function as both a hand modifier and a lubricant of the type needed for sanforization, etc.

MA-SOFT NYI. is recommended for use in pure finish or starch finish formulations and as a general purpose softener system for resin/catalyst formulations, especially where non yellowing, minimal colour bleed and a wide range of ionic and pH compatibility is desired. As colour migration properties vary depending on dye systems, total finish formulations, etc., we suggest that you consult your technical representative for guidance with your particular system.

Typical Properties

Appearance	:	Translucent white liquid
pH (1 % Solution)	:	7.2 - 8.6
Activity	:	29.0 - 31.0
Specific Gravity at 25°C	:	1.01 - 1.03

Application

Typical finish formulation for indigo dyed denim providing maximum compatibility with special cationic fixatives, etc. :

0.25 - 0.50 % o.w.b.	MA-WET EJW (nonionic wetter)
1.0 - 4.0 % o.w.b.	thin boiling acid converted or oxidized starch (70 to 90 fluidity)
1.5 - 2.5 % o.w.b.	MA-SOFT NYI. (nonionic emulsion of ester blend)
0.5 - 1.0 % o.w.b.	MA-SOFT PE-HD nonionic polyethylene emulsion *
0 - 3.0 % o.w.b.	cationic dye fixative **

Page 1 of 3

Application (cont'd)

* a medium density polyethylene emulsion may be introduced replacing a portion of the **MA-SOFT NYI.** to improve in cutting, sewing and abrasion results on 14 oz. 100 % cotton denim fabrics, polyester blend denim fabrics and in permanent press formulations applied to polyester/cotton blends.

** cationic dye fixatives may be used with this system for application on indigo and sulfur dyed fabrics which must possess maximum washfastness.



Typical indigo dyed denim formulation in which anionics can be tolerated (no cationic fixatives, etc., present) :

0.25 - 1.0 % o.w.b.	MA-WET-G75P (75 % active sulfosuccinate)
1.0 - 4.0 % o.w.b.	thin boiling acid converted or oxidized starch (70 to 90 fluidity)
1.5 - 2.5 % o.w.b.	MA-SOFT NYI. (nonionic emulsion of ester blend)
0.5 - 1.0 % o.w.b.	MA-CHEM LUBESOFT DSO anionic sulfated ester concentrate *

* incorporation of a sulfated ester concentrate into a denim finish formulation can improve on hand, sanforization, etc.; however, care should be exercised to assure that it does not result in undesired bleeding of sulfur and/or indigo dyed yarns causing shade variations (tailing) on long runs.

Typical pure finish for sanforizing, lubrication and hand modification only :

0.25 - 0.50 % o.w.b.	MA-WET EJW (nonionic wetter)
0.5 - 1.0 % o.w.b.	MA-CHEM NDA (anionic sulfated ester concentrate)
1.0 - 2.0 % o.w.b.	MA-SOFT NYI. (nonionic emulsion of ester blend)

Application (cont'd)

Typical resin/catalyst permanent press formulation :

0.10 - 0.25 % o.w.b.	MA-WET EJW (nonionic wetter)
8.0 - 16.0 % o.w.b.	glyoxal resin
1.5 - 2.5 % o.w.b.	MA-SOFT NYI. (nonionic emulsion of ester blend)
0.5 - 1.0 % o.w.b.	MA-SOFT PE-HD nonionic polyethylene emulsion *
2.0 - 4.0 % o.w.b.	catalyst (use level of catalyst recommended by supplier of resin)

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