Revised: Dec. 2023

BIOWET LIQUID

A versatile low foaming, APEO free biosurfactant suitable for continuous bleaching and for machines having the tendency to foam

CONSTITUTION	Alkyl polyglycol ether blend
APPEARANCE	Clear to slight hazy liquid
IONICITY	Non-ionic
MISCIBILITY	Miscible in water
COMPATIBILITY	Compatible with mild alkali, acid, anionics & nonionics. Incompatible with hard water and high TDS

HIGHLIGHTS

- Good wetting and mineral oil emulsifying properties
- Stable to acid, alkali and hard water
- High efficacy at low dosages
- Side enzyme activity
- Suitable for jet, soft flows and drum washing machines as a scouring and wetting agent

APPLICATION

A good wetting agents/detergents used in the pretreatment should have good emulsifying properties to ensure the removal of oils and fats from the textile material. The emulsifying effect of the auxiliary is essential for removing knitting oils and spin finishes from the fabric. Non-foaming wetting agents / detergents are necessary for bleaching in machines with a high liquor turbulence, e.g. jet dyeing machines.

BIOWET LIQUID removes size degradation products and emulsifies oils and fats. It is a non foaming product hence suitable for high turbulance machines such as JET, soft flow, winch and package machine.

GUIDELINES

1. ENZYMATIC DESIZING - LONG LIQUOR MACHINE

1.1 WARM

Rexsize MHT 60 Powder	1.0-2.0 %	pH: 6.5-8.0
Common salt	1.0-5.0 gms/lit	60-65°C for 30-90 mins
BIOWET LIQUID	0.1- 0.2%	

1.2 HOT

Rexsize LHT 100 Liquid	0.5-1.0 %	pH: 6.5-8.0
Common salt	1.0-5.0 gms/lit	80-95°C for 30-90 mins
BIOWET LIQUID	0.1- 0.2%	

ROSSARI BIOTECH LIMITED
201 A & B, Ackruti Corporate Park, LBS Marg, Next to GE Gardens, Kanjurmarg (West), Mumbai - 400 078, Tel: +91-22-61233800 / 25777604 / 605, Fax: +91-22-61233846 / 871 / 25796982
E-mail: info@rossari.com, Website: www.rossari.com

1.3 PAD BATCH

Rexsize LHT100 Liquid	2.0-5.0 gms/lit	pH: 6.5-8.0 Pad at 80-85°C & Batch at RT for 4-8 hours Pick up: 80-100 %
Common salt	1.0-5.0 gms/lit	
BIOWET LIQUID	1.0-2.0 gms/lit	

Note: Addition of Proton WDE Liquid - 1.0-2.0 gms/lit may be recommended for heavy metal chelation

1.4 CONTINUOUS - PAD STEAM

Rexsize LHT New Liquid	3.0-5.0 gms/lit	pH: 6.5-8.0 Pad at 80-85°C Steam at 90-110°C for 1-60 mins Pick up: 80-100 %
Common salt	1.0-5.0 gms/lit	
BIOWET LIQUID	1.0-2.0 gms/lit	

Note: Addition of Proton WDE Liqiud or Kleerix CR Liquid – 1.0-2.0 gms/lit may be recommended.

2. SCOURING

2.1 WINCH/JET

Caustic soda flakes	1.5-2.0 %	95°C for 30-45 mins
Kleerix PE-R Liquid	0.5-1.0 %	
BIOWET LIQUID	0.1-0.2 %	
Fibrolube HML Liquid	1.0-2.0 %	

2.2 CABINET / PACKAGE

Caustic soda Flakes	1.5-2.0 %	95°C for 30-45 mins
Kleerix PE-R Liquid	0.5-1.0%	
BIOWET LIQUID	0.1-0.2 %	
Zywet PDG Liquid	0.3-0.5 %	

2.3 CONTINUOUS - PAD STEAM

Caustic soda Flakes	30-40 gms/kg
Kleerix PE-R Liquid	1.0-2.0 gms/kg
BIOWET LIQUID	1.0-2.0 gms/lit

Pad Temperature: 60°C
Pick up: 100-120 % (wet on wet)
Steaming temperature: 100°C
Treatment time: 10-20 mins

3. BLEACHING

3.1 DISCONTINUOUS

A) READY TO DYE

Caustic soda Flakes	2.5-3.0 %	95°C for 40-60 mins
H_2O_2 (50%)	0-3.0 %	
Zystab C Liquid	0-0.7 %	
Kleerix PE-R Liquid	0.2-0.5 %	
Fibrolube HML Liquid	1.0-2.0 %	
BIOWET LIQUID	0.1-0.2 %	

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B) FULL WHITE

Caustic soda Flakes	2.0-3.0 %	95°C for 40-60 mins
H_2O_2 (50%)	3.0-6.0 %	
Zystab C Liquid	0.5-1.5 %	
Kleerix PE-R Liquid	0.2-0.5 %	
Fibrolube HML Liquid	1.0-2.0 %	
BIOWET LIQUID	0.1-0.2 %	

Reductive Bleach:(if required) with

Sodium Hydrosulphide	2.0 %	70°C for 60 mins
Kleerix PE-R Liquid	2.0 %	

3.2 CONTINUOUS- PAD STEAM

Caustic soda Flakes	2.0-8.0 g/kg
H_2O_2 (50%)	20-30 g/kg
Zystab SA Liquid	2.0-8.0 g/kg
BIOWET LIQUID	1.0-2.0 g/lit
Kleerix PER Liquid	2.0-5.0 g/kg

Pad Temperature: Room temperature
Pick up: 100-120 % (wet on wet)
Steaming temperature: 100°C
Treatment time: 10-20 mins

4. ONE BATH SCOUR-BLEACH DISCONTINUOUS

Caustic soda Flakes	2.0-3.0 %	95°C for 40-60 mins
H_2O_2 (50%)	3.0-4.0 %	
Zystab C Liquid	0.5-1.5 %	
Kleerix PE-R Liquid	0.5-1.0 %	
Fibrolube HML Liquid	1.0-2.0 %	
BIOWET LIQUID	0.1-0.2 %	

5. CONTINUOUS - PAD STEAM

Caustic soda Flakes	20-30 gms/kg
H_2O_2 (50%)	30-50 gms/kg
Zystab SA Liquid	5.0-10.0 gms/kg
BIOWET LIQUID	**1**.0-2.0 gms/kg
Kleerix PE-R Liquid	1.0-2.0 gms/kg

Pad Temperature: Room temperature
Pick up: 100-120 % (wet on wet)
Steaming temperature: 100°C
Treatment time: 10-20 mins

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