

# Resilutions

simple, powerful solutions for your processing needs



## Demystifying denims

# Denim processing chain



**Desizing**  
MP3 Compound - 1% owg  
ABLP Plus - 0.5% owg  
pH 5-8, 45-70°C, 20-30 mins



**Rinse (5 mins)**



**Single bath desizing and biofading**  
Ezycare GEO - 1% owg  
Resilube TR - 2% owg  
ABLP Plus - 1% owg  
pH 5.5, 55°C, 40-50 mins



**Acid enzyme**  
Ezysoft APEX - 1% owg  
ABLP Plus - 1% owg  
pH 4.5, 55°C, 40 mins



**Cold enzyme**  
Ezycare NTP - 1% owg  
ABLP Plus - 1% owg  
pH 6.5, 30°C, 45-60mins



**Neutral enzyme**  
Ezycare NEU - 1% owg  
ABLP Plus - 1% owg  
pH 6.5, 55°C, 45-60 mins



**Rinse (5 mins)**



**Rinse (5 mins)**



**Clean up**  
Ezycare CBS - 0.3-0.5% owg  
ABLP Plus - 0.5% owg  
pH 8, RT, 15 mins



**Rinse (5 mins)**



**Super soft feel**  
Ultra GM12 - 1-2% owg  
+  
Ezyfeel Ramido - 2-3% owg  
pH 5.5, RT, 20 mins



**Dry feel**  
Ultrafab HYDRI - 1-2% owg  
pH 5.5, RT, 20 mins



**Anti-ozonate**  
Resil AOEC - 1% owg  
pH 5.5, RT, 20 mins



**Wet feel**  
BT1008 - 1-2% owg  
+  
Ezyfeel Ramido - 1-2% owg  
pH 5.5, RT, 20 mins



**Natural feel**  
Greenule - 0.2- 0.5% owg  
pH 5.5, RT, 20 mins

## Desizing agent

### MP3 Compound

- One compound. Multiple chemistries.
- No need of lubricant and wetting agent, etc.
- Efficiently removes synthetic sizes.

## Enzymes

### Acid cellulases

- Ezysoft APEX**
- Rapid action.

### Neutral cellulases

- Ezycare NEU**
- Cost effective
- Salt and pepper effect.

### Cold cellulases

- Ezycare NTP**
- Saves energy and cost.

### Single bath

- Ezycare Geo**
- One step desizing and biofading
- Saves water, time, and energy.

## Anti-backstaining agents

### Enzymatic

- Ezycare CBS**
- Excellent indigo clean up
- Improves ozone fastness.

### Non-enzymatic

- ABLP Plus**
- Disallows loose Indigo from settling.

## Finishing solutions

### Softener for denims

- Ezyfeel Ramido**
- Soft and bulky handle
- Excellent surface smoothness.

### Silicones for denims

- Ultra GM12**
- Smooth and drape
- Cost effective.
- BT1008**
- Imparts wet feel.
- Ultrafab HYDRI**
- Imparts dry feel and
- Excellent surface smoothness.

### Greenule

- Granular silicone
- Imparts natural handle
- Wide pH and temperature stability.

### Anti-ozonate softener

- Resil AOEC**
- Protective agent against ozone fading
- Non-yellowing softener.





## Resins

### Resil CLS (Glyoxal based)

- All-in-one single component resin
- No need to add catalyst, polyethylene, and silicones
- Best to get permanent crinkles
- Best for light-coloured, ice-washed and bleached denims
- No yellowing.

### Resicare DSS (DMDHEU based)

- Low formaldehyde resin
- Economical
- No harsh feel
- Minimal strength loss
- Recommended for permanent crinkles.

## Recipes

### Crinkles or whiskers

#### For dark shades

- |                     |     |
|---------------------|-----|
| • Resicare DSS      | 30% |
| • MgCl <sub>2</sub> | 5%  |
| • Ultra GM12        | 15% |
| • Water             | 50% |

#### For light shades/ ice-washed

- |              |     |
|--------------|-----|
| • Resil CLS  | 40% |
| • Resil ASNY | 20% |
| • Water      | 40% |

#### Steps to be followed for both the above recipes:

1. Make pH 4.5-5 using acetic acid.
2. Spray or mop on localised area.
3. Make crinkles or whiskers.
4. Dry and cure at 150°C for 15 minutes.

For more information about Resil's solutions for textile finishes or for your specific needs, call us or e-mail [marketing@resil.com](mailto:marketing@resil.com)



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