

# FIREMOUNT TEXTILES LTD

ECO/SUSTAINABLE WASH

# OUR MISSION TOWARDS SUSTAINABILITY



Our production starts from the use of BCI cotton for our fabric manufacturing, which is the largest cotton sustainability program in the world.

We are also in the trend with fabric made from recycled plastic bottles with the aim to protect the environment.

# CONVENTIONAL WASH V/S SUSTAINABLE WASH

Having started from the selection of sustainable fabric, we moved on with technology in the process of finishing our garments by changing our washing techniques from traditional wash to sustainable wash

## *MANUAL DRY PROCESS*

- Manual process like manual Whiskers, Hand Sanding, Grinding, Damages and PP Spray

## *LASER TECHNOLOGY*

- Use of **Laser Technology** to create Whiskers, Hand Sanding, replace PP spray, create Rips and Damages and Patterns

## *CONVENTIONAL WASH*

- Desizing and Anti-Backstain wash
- Pumice Stone / Enzyme wash
- Bleaching Agents

## *ECO / SUSTAINABLE WASH*

- Use of **Ozone Machine** to replace Desizing process without water and chemical
- Use of **E-Flow machine** for main washes like Enzyme, Stone and Towel effect, Softening but with less water and chemical consumption
- Use of **Ozone Machine** to replace bleaching and cleaning process without harmful chemicals





# LASER MACHINE



We use Laser Technology from Jeanologia to replace manual whiskering process, hand sanding and PP spray and rips and damages, thus reducing hazardous health impact of our workers.

With the Laser Technology we achieve total reproducibility of the product developed with it.



# G2 – OZONE MACHINE



G2 takes Air from the atmosphere and transforms it into Ozone gas which is transformed back into purified air before being returned to the atmosphere



- **CASTING:**
  - Aged Cotton – unique yellow cast for true vintage looks in Pure Indigos
  - Gray casts for a retro look
- **CLEANING:** Removes back staining & loose indigo without detergents
- **BLEACHING** without the bleaching agent and water(load must be prewashed and humid)
- **ELIMINATES THE NEED FOR POTASSIUM PERMANGANATE SPRAYING**
- **BLACKS & GRAYS FADE NATURALLY WITHOUT TURNING BROWN**
- **ELIMINATES YELLOWING FROM BLEACH LOOKS**

# E FLOW

Jeanologia <sup>ECO</sup> e-Flow

*Water is over, air is the future.*



Reduction of 95% of water usage per process in E Flow.

Reduction of 79% of electricity consumption per process in E Flow

Elimination of water wastes and the associated chemical wastes to the environment. Through the use of the exact quantity needed for the process.



e-Flow savings up to:



95%



50%



79%

# TYPICAL WASH PROCESS

The table below shows the approximate consumption of water per wash process

PROCESS	NORMAL WASH	ECO WASH	USING EFLOW	OZONE PROCESS
DESIZEING	20 L / KG	3 L/KG	-	0 L (dry mode)
RINSE	20 L / KG	7 L / KG	1 L /KG	-
ENZYME	20 L /KG	4 L / KG	1 L / KG	-
SOFTNER	20 L / KG	7 L / KG	1 L / KG	-

\*\*\*Please note that this data has been compiled from a typical wash recipe.

\*\*\*It will differ according to washes.

# EIM Certificate

## Environmental Impact Measuring Tool

EIM assesses the environmental impact of the garment finishing process in the following individual categories :

- chemical
- water
- energy
- worker health

There are 3 types of impacts resulting from different washes

**EIM  
SCORE**



0-33  
LOW  
IMPACT



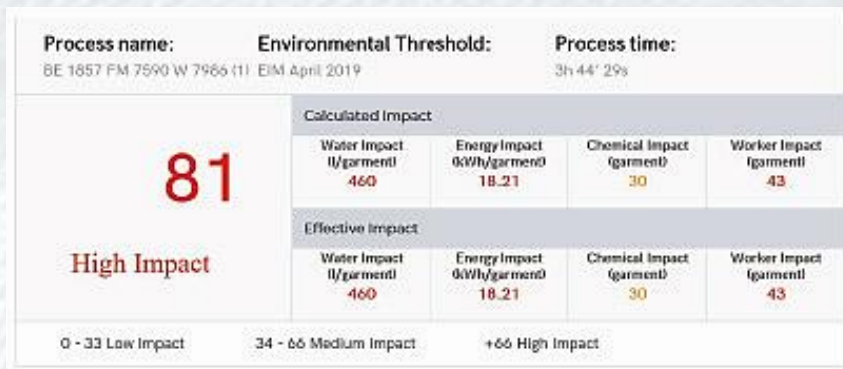
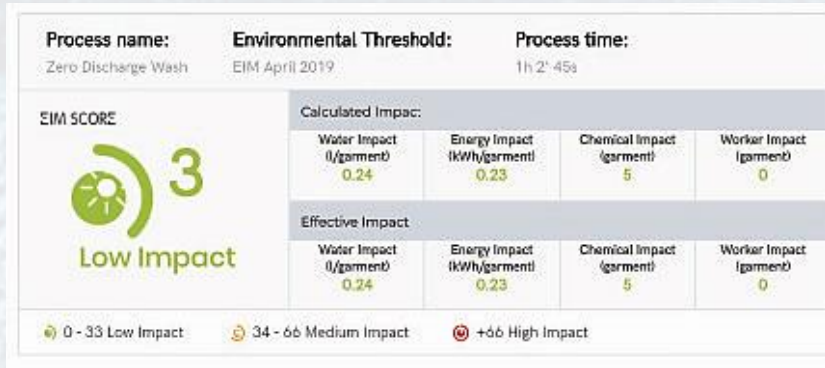
34-66  
MEDIUM  
IMPACT



+66  
HIGH  
IMPACT



# Examples Of Our Wash Results



WE THANK YOU  
FOR JOINING THE REVOLUTION  
FOR A GREEN FUTURE