



Cosmo Essen Inc. Ltd.

Revolutionary

&



sustainable



**ENZYME DUST
REMOVING
CHEMICAL**





Cosmo Essen Inc. Ltd.

PRECOWASH

**A WONDERFUL AND
INNOVATIVE NEW
GENERATION
TECHNOLOGY TO
CONTROL THE LOOSE
LINT, MICROFIBERS AND
DUST FORMED DURING
ENZYME WASH.**



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PRECOWASH

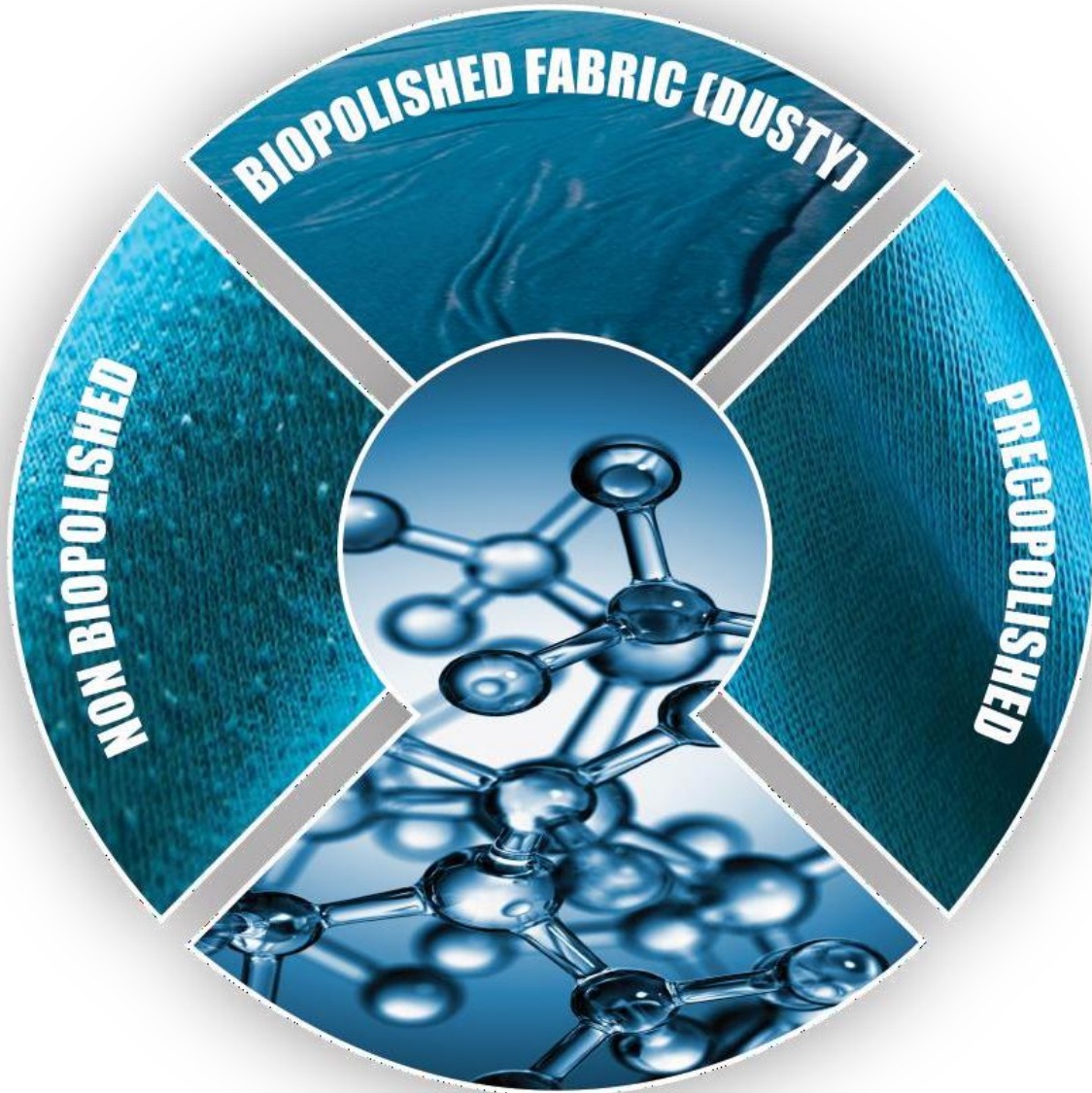
Breaks the bond between the Loose Fiber and the Fabric in the Biowash Bath and makes all the Dust coagulated.

When the bath is drained, all loose Lint also drain away along with the water leaving the Fabric Totally Dust-Free!





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BEFORE



EFFECT OF PRECOWASH



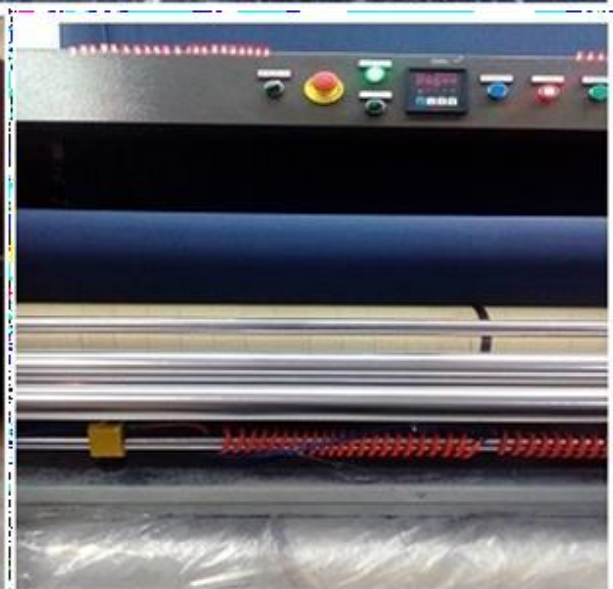
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COMMON FACTORY SCENERIO





SLITTING MC.



DUST EVERYWHERE !!!

WORKERS HEALTH HAZARD



Airborne fine dust greatly increases the chance of developing lung cancer by 20%, according to a South Korean medical team, **Cancers occurring** tumors, particularly of the lung and nose, are related to substances commonly encountered at work including cellulose, wood dust, asbestos, silica, chrome VI, nickel & cadmium. These account for thousands of work-related deaths each year.

Chronic Obstructive Pulmonary Disease COPD: also called Chronic Obstructive Airways Disease (COAD), a blanket term for 'obstructive' lung conditions like bronchitis and emphysema. Reduces airflow out of the lungs. HSE estimates 15-20 per cent could be work-related.

Asthma: Another obstructive lung disease, linked to exposure to irritants or allergens ('sensitisers') at work. A reversible shortness of breath. between 15 and 11 cases are work related.

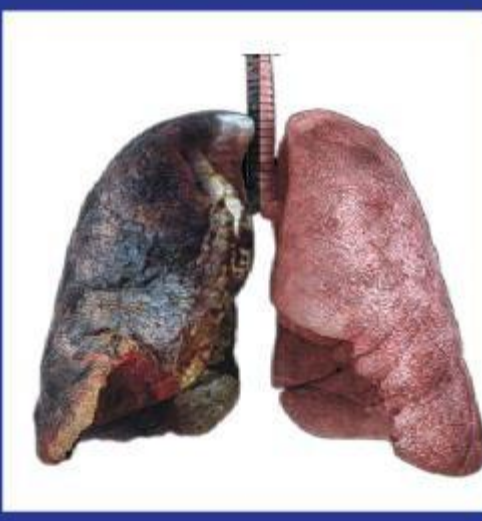
Fibrosing alveolitis: Also known as pulmonary fibrosis, can be caused b some occupational dust exposures, for example, "flock worker's lung" (Hazards 104; Small Glued Fiber)

Pneumoconiosis: A group of 'restrictive' lung diseases like silicosis, talcosis and asbestosis, where dust exposure causes debilitating lung scarring.

Cancers: Tumors, particularly of the lung and nose, are related to substances commonly encountered at work including wood dust, asbestos, silica, chrome VI, nickel & cadmium. These account for thousands of work-related deaths each year.

Heart Disease: Dust affected lungs put extra strain on the heart, which can lead to right-sided heart failure. Some occupational exposures can potentially fatal conditions like Cardiomyopathy. Very fine dust particles cause inflammation of the heart and a higher risk of heart attacks.

Other Problems: Exposure levels half the level allowable for for most workplace dusts overwhelm the body's first line of defense, the 'mucociliary clearance' that filters out dust in the upper respiratory tract. This can leave the worker more vulnerable to infections and more susceptible to occupational lung disease. Lots of other dust-related conditions occur, some specific to particular exposures; beryllium is linked to sarcoidosis, chrome ulcers.



HORRIFIC MISPRINT IN AOP

One of the Biggest Problems that AOP Fabric faces is Misprinting.

Dust often get stuck onto the Printing Machine's Head and causes continuous Misprint.

On the other side, Dust comes out from the fabric when it dries after printing, resulting in Misprint

Tons of Fabric and thousands of RMG get rejected by Buyers for the misprint issue.



Common Printing Defects



PRECOWASH

- ✓ DUST FREE PRINTING
- ✓ NO MISPRINT DUE TO MICRO FIBER DUST
- ✓ LESS PANEL REJECTION
- ✓ NO RE-WORK
- ✓ HEALTHY ENVIRONMENT

PREVENT DUST MIGRATION WITH PRECOWASH



BUYERS OFTEN DEMAND THE GARMENTS TO BE PACKED IN A BATCH OF DIFFERENT COLORS.

SINCE ENZYME DUST IS NOT SUSTAINABLY CONTROLABLE BY TRADITIONAL WAY. DUST MIGRATION MAKES THE PACKING CONDITION WORSE.

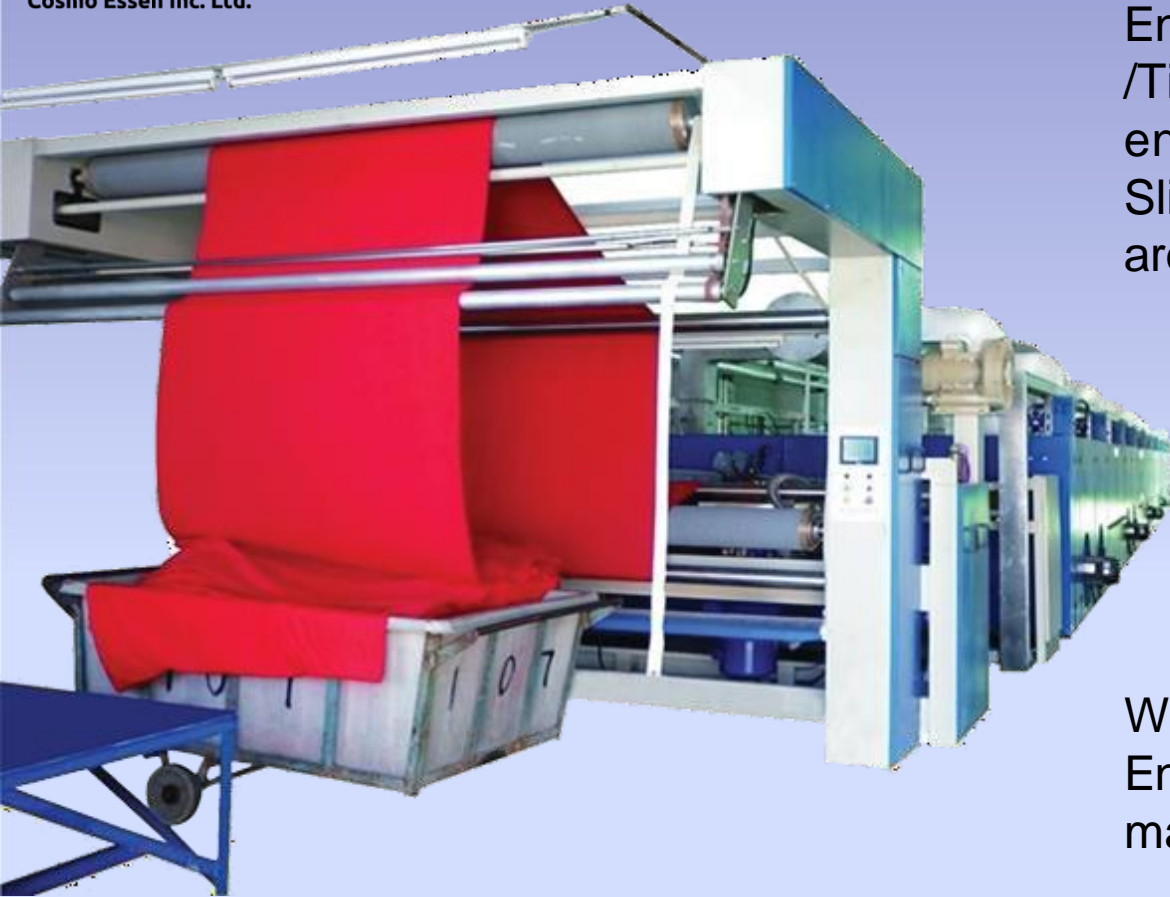


PRECOWASH IS A LIFE SAVER IN THIS CASE





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SAVE YOUR STENTER!

Enzyme Wash produces Enormous Loose Lint /Tiny fiber Dust or balls, which overcasts the entire Factory Premises. Especially the Slitting Machine, Stenter Machine & Cutting area is affected.

When the fabric is placed into the Stenter, Enzyme Dust spreads all over making the machine Jammed & Cramped.

The trapped Dust makes it compulsory to run regular maintenance of the Stenter which results in Spending Extra Money, Manpower, Time & Energy. Besides the Electrically charged Lose Fibers/Lint frequently causes sparking as a result Fire catches on the Machine.

SURELY ENZYME DUST IS THE SINGLE WORST DISASTER TO RUIN STENTER'S LIFESPAN & DURABILITY AND THE ONLY FEASIBLE WAY OF KEEPING AWAY YOUR MACHINE FROM HARM IS USING "PRECOWASH"

PROACTIVE PROCESS

• PRETREATMENT

• NEUTRALIZATION

• ENZYME

• **ADD PRECOWASH IN BIOPOLISH BATH**

• DYEING

• FINISHING

• CUTTING/PRINTING



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- ✓ No Additional Process Required
- ✓ 10 to 15 % of **WATER** use is saved
- ✓ 10 to 12% **ENERGY** is saved
- ✓ Less Water Consumption in Silting Machine
- ✓ Minimal possibility of Fire in the Stenter
- ✓ No Fiber Migration amongst Garments
- ✓ Improves Rubbing Fastness
- ✓ Hygienic & Safe Environment for the Workers



MINIMIZE FIRE RISK

With

PRECOWASH

According to a very recent joint study by government's a2i project & International Labour Organization (ILO)

“80% of Fire Accidents took place in Bangladeshi Textile Dyeing sector in 2000-2019 were because of Electric Short Circuits caused by Stenter Sparkling”

Stenter Machines frequently catch on Fire mainly due to the Fabric's Dust!

When the Dust gets into the machine they become charged with Static Electricity. Into the Air-duct these Dust starts sparking and natural high temperature of Stenter machine ignites the Flame. Quite an unavoidable danger it is!

PRECOWASH REMOVES ALL THE DUST AT EARLY BIOPOLISHING STAGE, THUS THE RISK FACTORS OF FIRING IS DRASTICALLY MINIMIZED.



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EHS BENEFITS



- Saves Tons of Water Everyday!
- Helps to keep the work environment clean.
- Saves workers health from Chronic Diseases.
- Minimizes the Risk of fire Accidents.



COSMO ESSEN INC. LTD.

**YOUR SINCERE COMPANION IN STRATEGIC &
SUSTAINABLE TEXTILE SOLUTIONS**

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