

LIQUID AMMONIA
FINISHING PLANT

LAFER S.p.A.

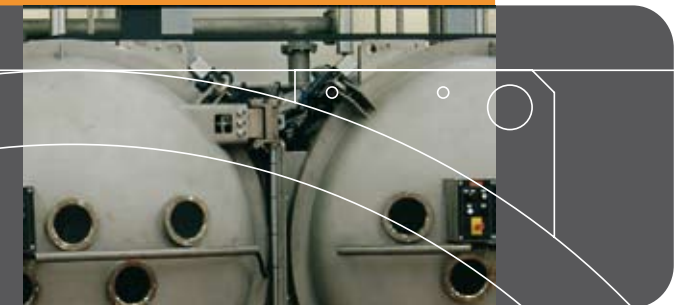
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PERMAFIX



lafer
SPA
ideas for better fabrics

The first plant in the world that recovers only **pure ammonia** leading to absolute safety, far less space occupancy and results unbeatable by any other system

Use the same unit for ready-for-dye fabrics and denims

The PermaFix liquid ammonia finishing plant has been designed for continuous processing of cellulose based fabrics (cotton and blends) and is recommended for shirtings, bottomwears, and denim. The particular configuration leads to the possibility of using the same unit for:

- preparation stage of ready-for-dye fabrics
- finishing stage of dyed fabrics and denim



PREPARATION BY CAUSTIC SODA MERCERIZING NOT REQUIRED

LIQUID AMMONIA SIGNIFICANTLY IMPROVES:

- | | |
|--------------------------|--|
| crease recovery | dimensional stability |
| dura press (dp) rating | resistance to abrasion |
| wash and wear properties | deepness of shade (leading to reduction of dyeing costs) |
| soft handle | |
| fabric appearance | |

SAFETY ENSURED BY EXCLUSIVE DESIGN

The PermaFix plant is superior to any existing ammonia system because the virtually closed circuit ensures the **highest level of safety** as the process takes place in a sealed environment thanks to the **patented virtual seals** where air and water are totally eliminated simplifying ammonia recovery significantly.

In fact recycling of pure ammonia is achieved only by condensation of the ammonia gas recovered. No distillation plant is needed resulting in a significantly simpler layout and **far less space occupancy**.

