

Decreases environmental burden of dyeing process

WS™

What is WS™ yarn?

A rapid-dye yarn which was developed through change in physical reaction of the yarn making process;

the time it takes for dyeing fabrics can be greatly reduced

※Can be applied to various textiles for fashion, uniform, interior, etc

Improvement in
dyeing efficiency

50%
UP↑

Dyes
fast

Reduces amount of dye
stuff by 20%



Dyes in low
temperature

Reduces energy
by 30%

WS™ Positive results towards
the environment

CO2 emission from
energy usage

30%
DOWN

Leftover dyestuff
in waste water

DOWN

Since WS™ fabrics are easier to dye,
the amount of energy and dye stuff can be reduced

Effect of CO2 reduction WS™ products

Conventional
product

WS™

31.7%

When making the same product,
31.7% of energy was reduced

① calculated based on CO2 emission for producing 1t of textile
Conventional textile:1,609kg
WS™ textile:1,099kg
1,607→1,099kg about 31.7% of reducing CO2 emission



大大减少染色工程对环境的负荷

WS™

什么是 WS™?

通过改变制纱过程中的物理作用而开发出来的 "速染纱"

加工过程中,能够大大减少染色时间

※可以展开在服装、制服、内饰和材料等各种广泛用途

染色效率
50% UP

快速染色
染色用量
20%DOWN

低温染色
能源用量
30%DOWN

WS™ 纱线的减少环境负荷的效果

WS™ 的第三方机构的减少CO2证书

能源来源的
CO2排放量

30% DOWN

染色废水中的
残留染料

DOWN

和普通面料相比WS™面料具有更好的染色性,
因此能减少使用能源量和使用染料

従来

WS™

31.7%

制造同样成品 *1

与从来品相比CO2减少31.7%

*1
计算为制造每一吨纺织品时的CO2排放量差
普通面料品加工:1,609kg
WS™:1,099kg
1,607kg→1,099kg为約31.7%的減少CO2効果

Art in Technology

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