

FUNCTIONAL REACTIVE DYEING OF COTTON WITH INHERENT ANTIODOUR/FRESHNESS AND CLEANING EFFECT



Protech



Medtech



Homotech

Comfort and Protection by an Efficient Way

Dyeing for health-care sector



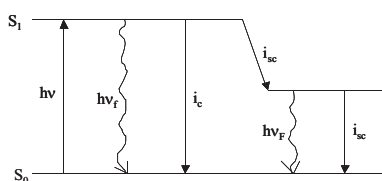
Freshness * Antiodour * Well-being

- Effect stable in repeated maintenance cycles
60°C + chemothermodisinfection
- Long lasting effect
- Functional dyeing



Co and Co/PES blend for

- PPE – clothing of medical staff and patients
- Face masks
- Bedlinen, interior textiles



Singlet oxygen production



Singlet oxygen production testing iodide method:
Spectrophotometric determination $A(\lambda = 351 \text{ nm})$

Maintenance cycles for health-care sector:

Washing 60°C+ChemoThermo disinfection

No. of cycle	Dyeing shade K/S %/	Singlet oxygen production $k_{\text{obs}} \cdot 10^2 [\text{min}^{-1}]$
0	100	0,1051
1	108,30	0,1064
5	100,81	0,1032
10	103,94	0,0960
25	89,99	0,1114

Application by conventional exhaustion dyeing process:



Colourfastnesses

water	EN ISO 105-E01	4/4/4-5
washing 60°C	EN ISO 105-C06	3-4/4/4-5
perspiration alkaline	EN ISO 105-E04	4/3-4/4-5
perspiration acid	EN ISO 105-E04	4/4/4-5
rubbing dry	EN ISO 105-X12	4-5
rubbing wet	EN ISO 105-X12	4
light Q-SUN	EN ISO 105 B02	3D



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