

## Brilliant solution to common technical problems

حلول ساطعة للمشاكل المتكررة

### Dyeing :

**\*Cotton dyeings** prevent bleeding of poor wash fastness of reactive dyes,  
Just after over flow rinsing for 10 min,

Using 1 % **GBkol knit leveler/SN/SN2/RSA/MSD**  
( boiling two times for dark shades & one time for med.to light shades )  
& then 1 % **GBwash off co** powder ( **fixer** ) if needed

**GBalkaline buffer & leveler** for the alkaline dyeing of PES fibers in order to avoid oligomer deposits  
as well as reactive dyeing leveling & buffer (no need to add alkali for fixation) & Replacing soda ash

**\*GBkol SN:** used as leveling for reactive dyeing specially for turquoise, blue and  
green `phthalosyanin` As well as is excellent protective colloid of all reactive dyes.  
And the only sequestering agent recommended to be used during reactive dyeings.

**\*GBvat leveler P :** unique leveling for `vat` indanthren dyeings, also is used as cationizing in  
exhaust pig. dyeing.

**\*GBleveler WO/PA :** Outstanding leveling for acid and acid metal dyeings

### **\*On PES dyeings machines :**

you will have a clean machine (Huspels, tube, cone, Jets....etc) & No oligomers  
within machine Pipes. When Using

2-4 % **GBojet** PELS/new

4- 6 g/l **GBhydro** Royal

6-8 g/l NaoH 38 Be For 45min. at 120° C

ISO 9001:2015

ISO 14001:2015

ISO 45001:2018

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## **\*Standard Recipes for Dyeing 100 % PES**

**\*اقوى الحلول لصباغة خامات البولى استر**

### 1- High Temperature Dyeing

#### **Dyeing:**

...% Disperse dyes  
1-2 g/l GBdispersing BL/WS (essential)  
0.5-1 g/l GBsquestring TA-S  
1-3 % GBleveler SFD\*/SFD\* New  
PH 4-5 preferably adjusted with GBcid AS  
15-45min at 125 – 135 °C

**Reductive Clearing:** Just after over flow rinsing for 10 min,use  
2 – 4 GBreduction clearing ECO  
10-20min at 70-80 °C

**\* Using 3-4% GBleveler SFD\*/SFD\* New  
For 30min. at 130 °C will level any faulty dyeings.**

### 2- Continuous Dyeing

#### **Padding:**

... g/l Disperse dyes  
5-20 g/l GBantimigrating AM  
1-2 g/l GBdetergent High Conc  
PH 6-7 preferably adjusted with GBcid AS  
Liquor pick-up 50-60 %

**Intermediate drying:** 110-130 °C

**Thermosoling:** 30-90 sec. at 200-225 °C

**GBojet BDS** Very economical dispersing, sequestering and buffering versatile multipurpose liquid auxiliary for use in polyester dyeing ... etc.

(one shot including nonvolatile Acid buffer).

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