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Taicell PCG-1500

Chelating is the great importance in the textile processing such as scouring、bleaching 、dyeing and aftertreatment。

Unchelated metal ion such as Calaium、Magnesium and Iron will cause bad influence in wet process。

Although hard water is the main source of the matel ion，but not only one。As we know Calcium and Magnesium are found in the natural fibers，Iron frequently enter the bath through pipes、tanks and other equipment made by Iron。

I、Properties：

1.Appearance	：light yellow liquid。
2.Ionic activity	：anionic/nonionic。
3.pH值(1% sol.)	：10±1。
4.Main component	：compound of phosphonate and polycarboxylate。
5.solubility	：easily dilutable with water。
6.Storage	：good storability。

II、Features：

1.Taicell PCG-1500 shows high chelating power on Ca^{++}、Mg^{++}、Fe^{++}。
2.Excellent dispersing properties。
3.To be stable at high temperature and pressure，and never decrease the chelating power in strong alkaline liquid。
4.Taicell PCG-1500 is suitable for all wet process。
5.Taicell PCG-1500 can prolong the life of H_2O_2 in the peroxide bleaching bath。
(If Taicell PCG-1500 is not efficient at 100℃ for stabilizing peroxide during the bleach，the Taicell HS-3000 is recommended to use)

III、Application：

1.Scouring and soaping
Taicell PCG-1500 0.5~1.0 g/l is recomended，the quantity depending on hard water condition。

2.Bleaching and dyeing

Taicell PCG-1500 1.0~2.0g/l o.w.f. is recommended

3.When the Iron is present，Taicell PCG-1500 2.0~3.0 g/l is recomended。

＊To estimate the chelating-value by following method:

1.2g Chelating agent are added to 85 ml distilled water and stirring well。

2.Buffer and pH: 10ml Na_2CO_3 solution(2%) and 2~5ml NaOH solution (pH=11)。

3.Titration: Use M/4 $Ca(CH_2COO)_2 \cdot H_2O$ to titrate the No.2 solution till the white sediment is appear。

Chelating-value (mg/g)= Titrating ml x 25 / 2g (chelating agent)