

EFFECT OF SODIUM HYDROXIDE ALONG WITH SODA ASH ON FIXATION OF DEEP SHADE

**MUHAMMAD ABDUR RAHMAN BHUIYAN¹, MD. ABDUS SHAHID²,
MD. ABDUL HANNAN³ & MD. ABDULLAHIL KAFT⁴**

^{1,2,3,4}Department of Textile Engineering, Dhaka University of Engineering and Technology (DUET), Gazipur-1700, Bangladesh.

ABSTRACT

This paper presents the influence of sodium hydroxide along soda ash on fixation of deep shades (8.0%, 7.6% & 7.2%) of Novacron super black G and Cottofix black B reactive dyes. The experiment explores the possibility of using the sodium hydroxide with soda ash (mixed alkali) as a fixing agent for deep shade in the dyeing of single jersey cotton fabric instead of soda ash only. By using the proper amount of mixed alkali during dyeing, the fastness properties of the dyed fabrics show very good to excellent and the process cost is reduced due to high exhaustion and fixation of dye molecule. The results show that the reactivity of reactive dye increases by adding mixed alkali and 10% dyes can be saved and the rubbing & washing fastness properties are improved for each shade.

KEYWORDS: Mixed Alkali, Reactive Dye, Deep Shade and Knit Fabrics.