

Dyeability of Silk Fabric with *Dactylopius coccus* Costa and *Quercus infectoria* Olivier

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Abstract : Nowadays, many natural dyes are used for colouration of textile materials. The natural dyes are friendly to human health and environment. Cochineal (*Dactylopius coccus* Costa) can be used with other natural dye plants for colouration of silk and wool fabrics. Almost never research works on the dyeing of silk fabric with *Dactylopius coccus* Costa and *Quercus infectoria* Olivier together. In this study, dyeability of 100 % silk fabric with *Dactylopius coccus* Costa and *Quercus infectoria* Olivier was studied. Optimum dyeing parameters were determined by using different concentration of *Dactylopius coccus* Costa (10%), *Quercus infectoria* Olivier (0,1,5 and 10%) and mordant salt (0 and 3%). The dyed silk fabrics were examined for their colorimetric and fastness properties. The fabrics were dyed successfully dark colours with 10 % *Dactylopius coccus* Costa, 10 % *Quercus infectoria* Olivier and presence of mordanting after dyeing process (3% mordant salt). The washing and light colour fastness of the dyed fabrics were investigated and adequate results were obtained.

Keywords : *Dactylopius coccus* Costa, *Quercus infectoria* Olivier, natural dye, dyeing, silk fabric

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