

Technical Data Sheet

Qualix-Carri-AR

Qualix-carri-AR is well-known product for dyeing of polyester fabrics. It is use when the materials are dyed at the atmospheric temperature. Boil this Qualix-carrier, swells the fabric and loosens. The amorphous regions with aid of carries polyester fabric can be dyed at 100°C.

Pale shades on polyester materials can obtain without the use of carrier when dyeing is carried out at 100°C. However those disperse dyestuffs possessing maximum fastness properties are generally slow diffusing and do not yield their expected fastness to light or their depth and brightness of shade when applied to polyester material at the boil without a carrier. There is danger of an uneven development of more intense shade in subsequent high temperature finishing processes. It is therefore recommended that carrier should always be employed when dyeing at 100°C even for pale shades.

Qualix-CARRI-AR is a light yellow mobile liquid and is designed as a self emulsifiable carrier for use in the application of disperse dyes to polyester yarn piece at a normal atmospheric boil

Qualix-CARRI-AR is like a phenolic type carrier does not adversely affect the light fastness of disperse fibre in common with most carrier Qualix-CARRI-AR develops a penetrating odour in hot dye liquors unless dyeing in totally enclosed systems adequars provisions for ventilation should be made

Preparation of emulsion

Qualix-CARRI-AR is added to 3-4 times depends upon its weight of hot water with stirring when a white emulsion is obtained the emulsion us produced is neutral and of good stability at the temperature normally employed for dyeing disperse dyestuffs

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Dyeing of 100% polyester, polyester/cotton and polyester-viscose fabric in open jiggar

The dye bath is set at 60°C with

2gm\lit	Qualix-DSP
5gm\lit	Qualix-CARRI-AR (previously Emulsified by diluting with 3-4 times Its weight of hot water at 60)

Sufficient quantity of acetic acid to bring the pH of the dye bath to 5:5-6

The fabric is entered in this bath at 60°C and treated for 30 minutes at this temperature the required quantity of dyestuff dispersion (previously prepared) is then sieved into the dye bath over two ends the temperature then raised to the dyeing continued for 1.5-2 hours at the boil. If excessive loss of carrier due to the volatilization is observed it is recommended that an addition of 5 g/lit of Qualix-CARRI-AR (previously emulsified) be added to the dye bath after the dyeing at the boil had proceeded for 1 hour the fabric is then rinsed dried heat-treated in a stenter at 180°C for 30-40 seconds reduction cleared washed soaped at the boil and finally rinsed.

Enclosed Jiggers

The dyeing method is identical as that described under the heading dyeing in open jiggar except that quantity of 5 gm per liter Qualix-CARRI-AR will probably prove adequate for the entire dyeing

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Note

In jigger dyeing the liquor to materials ratio is very short and the goods are in contact with the liquor for only time this might give rise to undesirable effect such as flocculation of dyestuffs specially when heave depends of shades are being dyed tailing of shades towards the end of pieces these effect can be prevented to some extent by operating the jiggers at maximum possible speed and by not allowing the cloth to run in the jigger while the bath end pieces in being heated to prevent the outside of the fabric roll cooling more than the inner portions and this causing differential rates of dyeing which yield different depths of shade between the middle and of the pieces or side to side variation in shades

It is of almost importance to maintain the temperature of the dye liquor as near 100°C as possible since every degree drop in dyeing temperature decreases considerably the rate at which the dyestuff is absorbed into the fibre leveling or migrational properties of the dyes will also suffer

Winch Dyeing

It is recommended that enclosed winches are employed for dyeing polyester and polyester blends in rope form so as to obtain a dyeing temperature of nearly 100°C in the dye bath A vent from the top of the machine to outside atmosphere should be provided in order to minimize condensation of the vapor on the upper surface of the machine and to reduce danger of spotting by the volatile carrier

The dye bath is set at 60 C with

1gm\lit Qualix- DSP
5gm \lit Qualix-CARRI-AR

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