

This recipe shows you how to calculate the amount of dye, water, salt and soda ash required for a specific depth of shade, using a dip-dye method.

The amount of **dye** is calculated **in relation to the weight of the fabric**.

The weight of required **chemicals** is calculated in relation to the **volume of water**.

SAMPLE RECIPE 1.

1. Weight of fabric = 400gms.

2. Depth of shade = light 2%
= medium 4%
= full strength 8%-10% maximum

Depth of shade required for example = 4% (from Kraftcolour online or Jacksons)

Calculate the amount of dye required for a medium shade as follows.

$$\frac{4}{100} \times 400 = 1600 = \underline{\underline{16\text{gms of dye.}}}$$

3. Calculate the amount of water for the dye bath.

30 X more water than fabric; this allows for movement of fabric in the dye bath.

30 X 400 = 12000gms of water or **12 litres of water.**

4. Calculate the amount of salt required. (Bunnings' swimming pool section)

Light= 30gms per litre

Medium= 45gms per litre

Dark= 55gms per litre

Medium shade 12 litres X 45 = 540gms. of salt

5. Calculate the amount of soda ash required (Bunnings' swimming pool section)

Light= 4gms per litre

Medium=6gms per litre

Dark=8gms per litre

Medium shade 12 litres X 6 = 72gms. of soda ash

SAMPLE RECIPE 2.

1. Weight of fabric = 250gms.

2. Depth of shade = light 2%
= medium 4%
= full strength 8%-10% maximum

Depth of shade required for example = 4%

Calculate the amount of dye required for a medium shade as follows.

$$\frac{4}{100} \times 250 = 1000 = \underline{\underline{10\text{gms. of dye.}}}$$

3. Calculate the amount of water for the dye bath.

30 X more water than fabric; this allows for movement of fabric in the dye bath.

30 X 250 = 7500gms of water or **7.5 litres of water.**

4. Calculate the amount of salt required.

Light= 30gms per litre

Medium= 45gms per litre

Dark= 55gms per litre

Medium shade 7.5 litres X 45 = 337.5gms. of salt

5. Calculate the amount of soda ash required

Light= 4gms per litre

Medium= 6gms per litre

Dark= 8gms per litre

Medium shade 7.5 litres X 6 = 45gms. of soda ash