

LAMPIRAN

LAMPIRAN 1 Perhitungan resep pada pencelupan kain poliester-kapas dengan zat warna dispers-reaktif

Sampel 1

- Berat bahan = 33.6 g
- Vlot = 1: 20 = 33.6 g x 20 = 672 mL
- Zat warna Dispersi = $\frac{20 \text{ g}}{1000 \text{ mL}} \cdot 672 \text{ mL} = 13.44 \text{ g}$
- Zat warna reaktif = $\frac{10 \text{ g}}{1000 \text{ mL}} \cdot 672 \text{ mL} = 6.72 \text{ g}$
- Zat anti migrasi = $\frac{10 \text{ g}}{1000 \text{ mL}} \cdot 672 \text{ mL} = 6.72 \text{ g}$
- Zat pembasah = $\frac{3 \text{ mL}}{1000 \text{ mL}} \cdot 672 \text{ mL} = 2.01 \text{ mL}$
- NaOH = $\frac{10 \text{ mL}}{1000 \text{ mL}} \cdot 672 \text{ mL} = 6.72 \text{ mL}$
- NaHCO₃ = $\frac{10 \text{ mL}}{1000 \text{ mL}} \cdot 672 \text{ mL} = 6.72 \text{ mL}$
- Urea = $\frac{25 \text{ g}}{1000 \text{ mL}} \cdot 672 \text{ mL} = 16.8 \text{ g}$

Sampel 2

- Berat bahan = 32.7 g
- Vlot = 1: 20 = 32.7 g x 20 = 654 mL
- Zat warna Dispersi = $\frac{20 \text{ g}}{1000 \text{ mL}} \cdot 654 \text{ mL} = 13,08 \text{ g}$
- Zat warna reaktif = $\frac{10 \text{ g}}{1000 \text{ mL}} \cdot 654 \text{ mL} = 6.54 \text{ g}$
- Zat anti migrasi = $\frac{10 \text{ g}}{1000 \text{ mL}} \cdot 654 \text{ mL} = 6.54 \text{ g}$
- Zat pembasah = $\frac{3 \text{ mL}}{1000 \text{ mL}} \cdot 654 \text{ mL} = 1,96 \text{ mL}$
- Na₂CO₃ = $\frac{10 \text{ g}}{1000 \text{ mL}} \cdot 654 \text{ mL} = 6.54 \text{ g}$
- Urea = $\frac{25 \text{ g}}{1000 \text{ mL}} \cdot 654 \text{ mL} = 16.3 \text{ g}$

Sampel 3

- Berat bahan = 32.7 g
- Vlot = 1: 20 = 32.7 g x 20 = 654 mL
- Zat warna Dispersi = $\frac{20 \text{ g}}{1000 \text{ mL}} \cdot 654 \text{ mL} = 13,08 \text{ g}$

- Zat warna reaktif $= \frac{10 \text{ g}}{1000 \text{ mL}} 654 \text{ mL} = 6.54 \text{ g}$
- Zat anti migrasi $= \frac{10 \text{ g}}{1000 \text{ mL}} 654 \text{ mL} = 6.54 \text{ g}$
- Zat pembasah $= \frac{3 \text{ mL}}{1000 \text{ mL}} 654 \text{ mL} = 1,96 \text{ mL}$
- Na_2CO_3 $= \frac{15 \text{ g}}{1000 \text{ mL}} 654 \text{ mL} = 9.81 \text{ g}$
- Urea $= \frac{25 \text{ g}}{1000 \text{ mL}} 654 \text{ mL} = 16.3 \text{ g}$

Sampel 4

- Berat bahan $= 33.4 \text{ g}$
- Vlot $= 1: 20 = 33.4 \text{ g} \times 20 = 668 \text{ mL}$
- Zat warna Dispersi $= \frac{20 \text{ g}}{1000 \text{ mL}} 668 \text{ mL} = 13.36 \text{ g}$
- Zat warna reaktif $= \frac{10 \text{ g}}{1000 \text{ mL}} 668 \text{ mL} = 6.68 \text{ g}$
- Zat anti migrasi $= \frac{10 \text{ g}}{1000 \text{ mL}} 668 \text{ mL} = 6.68 \text{ g}$
- Zat pembasah $= \frac{3 \text{ mL}}{1000 \text{ mL}} 668 \text{ mL} = 2 \text{ mL}$
- Na_2CO_3 $= \frac{20 \text{ g}}{1000 \text{ mL}} 668 \text{ mL} = 13.36 \text{ g}$
- Urea $= \frac{25 \text{ g}}{1000 \text{ mL}} 668 \text{ mL} = 16.7 \text{ g}$

LAMPIRAN 2 Perhitungan resep pada pencelupan kain poliester-kapas dengan zat warna dispers-reaktif

| Variasi Alkali | Kain Hail Pencelupan |
|--|-----------------------------|
| pH 13 NaHCO ₃ 10 ml/L + NaOH 10 ml/L | <input type="text"/> |
| pH 11 Na ₂ CO ₃ 10 g/L | <input type="text"/> |
| pH 12 Na ₂ CO ₃ 15 g/L | <input type="text"/> |
| pH 13 Na ₂ CO ₃ 20 g/L | <input type="text"/> |