Chemical Treatments

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Deterioration and conservation of photochemical material

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Always refrain from using chemical substances if you don't know exactly what you are doing!

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Drying

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- cold and dry storage
- bentonite
- silica gel

Silica Gel

- For a 300 m reel of 35 mm use 50 g.
- Monitor the weight of the reel.
- When the silica gel reaches 1.5 times its weight, then it should be replaced.
- Used silica gel can be regenerated by heating it to 120 °C for 1–2 hours.

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Unblocking

- → sodium polymetaphosphate (15 g/l)
- perchloroethylene (tetrachloroethene, «perc»)

Humidifying

3:1:1 formula

- → 3 parts of demineralised water
- → 1 part of glycerine
- → [not more than] 1 part of acetone
- Monitor the weight of the reel.

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Mould Fungus

to kill mould fungus:

→ chloroform

to clean:

- → isopropanol
- → ethanol

Swelling the Emulsion

Re-Development

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Hardening the Gelatine

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