

# 丝网制备



## 操作指南

该操作指南主要介绍如何有效提高丝网膜板附着力，从而使膜板在印刷过程中达到理想的最佳性能。丝网制备是网版制作过程中最简单、最快速，也是成本最低廉的操作环节之一，但其重要性往往容易被忽视。

**目的：**使丝网上的膜版附着力达到最大，从而增加膜板的印刷寿命。

### 丝网制备的重要性

聚酯网对大多数网版化学物质具有良好的耐受性，即使在湿度发生变化时仍然能够保证尺寸稳定不变，因此是目前最常用的丝网类型。聚酯网的缺点是丝网的未处理纤维也同样具有玻璃般的光滑表面。若在其表面淋上水，会发现膜版的附着力很差。为了提高膜版在网版上的附着能力，正确的丝网制备操作尤为关键。

### 制备后的网面是什么样子？

只需观察网面的集水能力即可判断其制备效果。如图所示，网面右侧的丝网已经过 Universal Mesh Prep 脱脂剂处理，而左侧丝网则未使用脱脂剂。在经过脱脂剂处理的丝网区域能看到明显的均匀水层。

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Asia: +65 (0)689 79670

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通过以下几个简单步骤即可测试出网面的制备效果：

1. 按照正常操作程序准备一半网面
2. 喷水浸湿
3. 观察网面的集水情况

如果水从网面两边呈“溪流”状迅速流淌或者零散分布网面的不同位置，说明水分受到丝网油脂和其它残留物排斥，这种情况就需要改善丝网的制备工艺



**建议：**

**使用产品 - 如果仅使用感光乳胶，则推荐使用自动脱脂浓缩液。**



自动脱脂浓缩液是一种浓缩型脱脂溶液，最好与 PLUS 直接乳胶搭配使用，该产品共有三种浓度可供选择。浓缩液在使用之前需要兑水稀释，例如，1 升 1:50 的浓缩液可稀释成 51 升脱脂溶液。

如果使用的是 Capillex 水菲林，则推荐使用 Universal Mesh Prep - 一种复合型脱脂剂和丝网润湿剂。这种脱脂剂有助于提高丝网的集水性能，对 Capillex 水菲林的顺利粘合十分关键。

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**重要提示：**应在前一个网布除膜完毕之后再进行丝网脱脂，然后将丝网封盖保存以防止再次污染。

## 刷泵

使用刷泵是刷涂脱脂浓缩液最简单、最快速的方法。

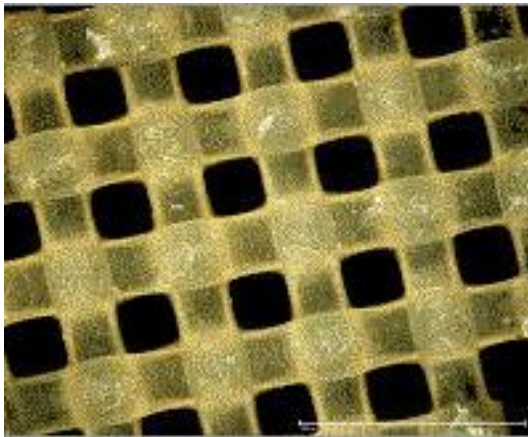
使用刷泵时，先在容量为 25 升的桶内倒入自动脱脂浓缩液，然后加入正确比例的水。

在网面上上下下移动刷头即可激活吸管，之后用刷头在丝网上刷涂适量的脱脂溶液。

操作刷泵无需使用空气或电力，因此安装过程十分简单。



## 版膜



如果使用 Capillex 或 Five Star 之类的间接性版膜，则丝网必须进行打磨/毛糙及脱脂处理。光滑的丝网纤维经过处理之后，其外型呈“齿状”，从而有利于模板的牢固附着。左图：在不损坏纤维的情况下细磨表面使其呈“齿状”

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**重要提示：**为了获得最佳效果，所有新网面和每使用 5 次模板之后必须进行打磨处理

### 磨网膏

磨网膏是一种即开即用的细磨液，可使用柯图泰毛刷将其涂抹在湿网屏两侧以获得最佳效果。柯图泰毛刷的刷毛柔软并且耐化学腐蚀，不会对丝网造成损伤。无论与自动脱脂浓缩液或是 Universal Mesh Prep 脱脂剂搭配使用，都可以获得理想效果。



柯图泰丝网制备产品	
Universal Mesh Prep	与 Capillex 水菲林和 PLUS 乳胶搭配使用的即开即用型脱脂剂/丝网润湿产品。
自动脱脂浓缩液(1:10)	浓缩型脱脂剂，最多可用 10 份水稀释
自动脱脂浓缩液(1:25)	浓缩型脱脂剂，最多可用 25 份水稀释与刷泵和 25 升蓝桶搭配使用效果理想
自动脱脂浓缩液(1:50)	浓缩型脱脂剂，最多可用 50 份水稀释
磨网膏	用于版膜的即开即用型磨糙膏
刷泵	使用人工抽吸泵是刷涂自动脱脂浓缩液最简单、最经济的方法
25 升蓝桶	与刷泵搭配使用

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