

DEK Ultra-Fine Pitch (UFP) ECO

UNDERSTENCIL CLEANING ROLLS



The Ultra-Fine Pitch (UFP) ECO Understencil Cleaning Roll is part of the range of DEK Process Support Products, which are engineered to maintain and optimize the printing process.

DEK UFP ECO rolls are uniquely designed to boost productivity and yield, reduce defects and decrease manufacturing costs. Incorporating a unique 3D structure with pockets to trap and hold solder particles, the rolls keep material away from the stencil to ensure a fast and effective clean. The hydrophilic properties of the fibers provide fast wicking, as solvent is delivered through the fabric to the bottom of stencil instantaneously so that cleaning is more effective and solvent consumption is reduced. Both of these characteristics are essential for the effective cleaning of ultra-fine pitch apertures inherent with today's miniaturized devices.



Key Benefits

Uniquely, the 3D architecture of DEK UFP ECO Understencil Cleaning roll counters the risk of contamination as the fabric traps solder paste and solders balls within its pockets. This is a key differentiator from paper-based products that allow paste to remain on the surface of the paper, creating the potential for contamination. Consequently, DEK UFP ECO rolls not only ensure efficient and effective understencil cleaning, they also prevent the cost and yield consequences of contamination.

- Outstanding cleaning performance
- Reduced solvent consumption by 50%, on average, for lower consumable costs
- Unique 3D structure traps solder particles away from the stencil, removing smear

- Ultra-low linting, Class 1000, ISO6 clean room compatible
- Enhanced vacuum performance (see diagram on the next page)
- Hydrophilic fiber structure for rapid solvent wicking
- ESD-safe packaging
- Improved process control
- Non-abrasive structure of fabric increases stencil and coating life
- Environmentally- friendly, chloride-free, recyclable
- Faster, more effective cleaning cycle leading to higher throughput



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Traditional paper cleaning rolls

DEK UFP ECO roll

PRODUCT RANGE DIMENSIONS

| Part Number | Platform | Fabric width (mm) | Core width (mm) | Inner core diameter (mm) | Roll max outer diameter(mm) | Roll length (m) |
|-------------|----------|-------------------|-----------------|--------------------------|-----------------------------|-----------------|
| 800071 | DEK | 515 | 530 | 19 | 56 | 11 |
| 800072 | DEK | 400 | 530 | 19 | 56 | 11 |
| 800073 | DEK | 300 | 530 | 19 | 56 | 11 |
| 800074 | MPM | 443 | 457 | 19.5 | 64 | 12 |
| 800075 | MPM | 443 | 457 | 19.5 | 100 | 44 |
| 800076 | MPM | 546 | 559 | 19.5 | 64 | 12 |
| 800077 | EKRA | 400 | 400 | 13 | 53 | 10 |
| 800078 | EKRA | 500 | 500 | 13 | 53 | 10 |
| 800082 | Yamaha | 440 | 440 | 25.5 | 88 | 25 |
| 800083 | Yamaha | 530 | 530 | 25.5 | 88 | 25 |
| 800084 | Yamaha | 620 | 620 | 25.5 | 88 | 25 |

*DEK UFP ECO rolls may be available for other platforms and sizes. Please contact your local representative.

PRODUCT SPECIFICATIONS

| Parameter | Technical data | Comments |
|---------------------|---|--------------------|
| Material | 100% polypropylene hydrophilic fibre | No bleach used |
| Manufacturing mode | Thermal bonding | No chemicals used |
| Fabric weight | 50g/m ² | |
| Thickness | 0.25 mm | |
| Surface resistance | <10 ¹¹ Ω | NSI ESD STM S11.11 |
| Tensile strength | 95N/50mm, machine direction 30N/50mm, transverse direction | |
| Absorption capacity | 540% rapid absorption | |
| Core | 100% virgin KRAFT paper | Green coloured |
| Packaging | ESD safe | |

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