



teknek

An ITW Company

Why use genuine Teknek Adhesive Rolls for Contact Cleaning?

Teknek adhesive rolls are a critical component of our IP-protected contact cleaning technology, ensuring reliable and effective particle removal without the risk of reverse contamination.

Designed specifically for use in contamination control and manufactured to the highest industry standards, using only genuine Teknek adhesive rolls provides superior performance, guarantees reliable results, extends equipment longevity, and maintains the integrity of the cleaning process. Why?

IP-protected
technology

Adhesive Rolls - Key Building Blocks

An adhesive roll might look basic and simple at first but is a complex entity. Consisting of three principal components (see Figure 1), adhesive rolls used in contact cleaning systems require careful calibration of particle capacity, adhesion strengths, durability and ease of use – requirements that often compete.

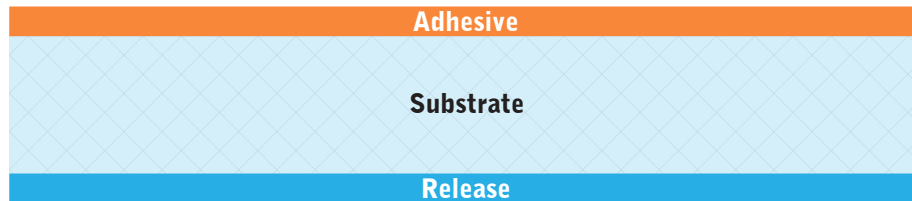


Fig. 1 - Schematic illustration of the three principal adhesive roll layers.

Teknek's adhesive rolls are made exclusively for contamination control. They offer a unique, expertly balanced design that delivers industry leading performance, trusted by globally leading producers.

Advantages of Teknek Adhesive Rolls

1. Proprietary Water-Based Acrylic Adhesive

Formulated with a 100% water-based acrylic adhesive, free from additives, ensuring a consistent and stable cleaning performance.

Unlike high-tack adhesives that can damage delicate substrates, Teknek's unique formulation balances high particle capacity with optimal adhesion, effectively capturing contaminants without unwanted residue or transfer of chemicals (see Figure 2).



Fig. 2 - Adhesive failure.



2. Direct Coated for Maximum Bond Strength

Teknek adhesive is direct coated rather than transfer coated, providing a much higher bond strength between the adhesive and its base material.

Direct coating is a more complex and costly process but ensures superior durability and performance, preventing delamination or adhesive transfer to cleaned materials.

3. Precision Controlled Coating Process

Each Teknek adhesive roll is produced with strictly controlled coat weight and residual moisture levels to maintain consistency across the entire roll width and length.

The adhesive must be fully cured but not overdried, ensuring optimal tack and long-lasting effectiveness. Even distribution is key – no patches or inconsistencies that could compromise cleaning performance.

4. Tested and Certified Performance

All Teknek adhesive rolls are tested to FINAT standards, verifying their quality and adhesion properties.

The paper base material is sourced from 100% sustainable suppliers, reinforcing our commitment to environmentally responsible manufacturing.

5. Advanced Release Liner for Optimal Functionality

Teknek adhesives use a non-silicone release that is precisely controlled to ± 1 micron thickness, ensuring predictable and repeatable performance.

The release liner maintains a tightly controlled gloss level to aid in the smooth operation and ease of refresh.

6. Engineered for Precision and Reliability

The base paper material is engineered to a complex specification, considering factors such as fibre density, wetting properties, base moisture content, and machine finish – far exceeding standard industry requirements and preventing the risk of substrate failure (see Figure 3).

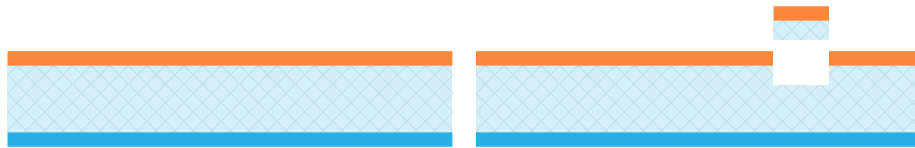


Fig. 3 - Substrate failure.

Rolls are sheeted using Teknek-designed machinery, ensuring the highest levels of precision and quality control throughout production.

Conclusion

Using original Teknek adhesive rolls ensures your contact cleaning system operates at peak efficiency, delivering reliable and consistent contamination removal.

With a carefully controlled, patented process, Teknek adhesives provide unmatched performance, helping manufacturers achieve the highest levels of first time yields and product quality whilst protecting valuable assets, reducing waste and safeguarding increasingly scarce resources.

For assured performance and peace of mind, always specify genuine Teknek adhesive rolls – engineered for excellence, tested for reliability, and designed to keep your production line contamination-free.

The Risks of Using Non-Genuine Adhesive Rolls

Opting for non-original adhesive rolls can compromise the entire production process impacting product quality and resulting in costly scrappages. Risks include:

Inconsistent Adhesion	Poorly formulated adhesives may lack the required balance, leading to ineffective contamination capture or excessive tack that can damage substrates and compromise specialist surface modified cleaning rollers.
Transfer Contamination	Inferior coating processes may result in adhesive transfer, leaving residues that can cause catastrophic cross-contamination events, negatively impacting product functionality and creating scrappage.
Uneven Cleaning Performance	Variations in coat weight, moisture levels, or release properties can create patchy cleaning results, reducing overall yield and efficiency.
Increased Machine Wear	Poor-quality adhesive rolls can generate debris leading to increased maintenance and potential downtime for process equipment and valuable assets.

Tekkie fact:

Teknek adhesive rolls might look like some generic alternatives but are not the same.

