

Technical Data sheet

Cole-Parmer Essentials Cleanroom Wipes

Part Number: 16377-83

Product Overview

The **Cole-Parmer [16377-83](#)** is a high-performance, heavy-duty sterile dry wipe meticulously designed for critical surface preparation, spill containment, and decontamination protocols. Laundered and multi-bagged within an active cleanroom, this 100% continuous filament polyester wiper delivers low particle generation and high sorbent purity.

Technical Specifications

Feature	Specification
Material Composition	100% Continuous Filament Polyester (Double-Knit)
Wipe Dimensions	12" x 12" (304 mm x 304 mm)
Edge Treatment	Laser-cut / Ultrasonically Sealed Edges
Sterility Level	Gamma-Irradiated (Validated to 10 ⁻⁶ SAL)
Cleanroom Rating	Compatible with ISO Class 4 to Class 5 environments

Packaging Infrastructure

Engineered for strict material transfer protocols into aseptic processing zones:

- **Wipes per Vacuum Pack:** 25 wipes (Airtight compression to prevent cross-contamination)
- **Packs per Outer Bag:** 4 packs
- **Bags per Master Shipping Case:** 15 bags
- **Total Volume per Case:** 1,500 total wipes

Performance Benchmarks

- **Ultra-Low Sourced Extractables:** Minimized chemical residue prevents cross-contamination across sensitive glass, polymer, or alloy processing machinery.
 - **Aggressive Fluid Sorption:** Double-knit structural pocket distribution pulls and retains high volumes of liquids, disinfectants, and oils.
 - **Advanced Chemical Resiliency:** Highly abrasion-resistant weave structure. Completely unreactive to standard sanitising matrices, including:
 - 70% Isopropyl Alcohol (IPA)
 - Concentrated Bleach (Sodium Hypochlorite)
 - Quaternary Ammonium formulations [1]
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Primary Applications

- Biotechnology aseptic fill areas & pharmaceutical formulation floors.
- Cleaning flat panel displays, high-spec optical tools, and medical devices.
- Applying or wiping away heavy industrial cleaning/disinfecting solvents.

