



TECHNICAL BULLETIN NUMBER 105

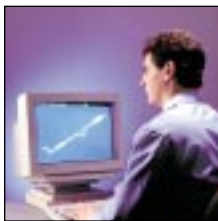


COPPER GAUZE

CUSTOM-ENGINEERED SOLUTIONS IN KNITTED WIRE MESH

For forty years, Metex design, development, and manufacturing engineers have been producing engineered components that take maximum advantage of the unique characteristics and robust nature of knitted wire mesh. Its interlocked looped structure, which offers excellent resiliency, memory—even when subjected to high temperatures as well as high-tensile or compressive stress—and strength, make knitted wire the ideal choice in materials when both performance and cost are paramount.

Metex products now meet a wide range of critical needs—from providing flexible, yet durable, seals and joints to noise attenuation, thermal insulation, and filtration—in some of the most demanding industrial applications and environments.



Complete in-house design, R&D, and test facilities



Flexibility in manufacturing for JIT requirements

Clean Critical Plastic Extrusion Equipment—And Reduce Downtime—with Metex Copper Gauze

Metex copper gauze is a proven, economical way to clean plastic extrusion equipment and molds—in a fraction of the time required by household cleaning products—while the machinery is still hot. Metex copper gauze helps dramatically reduce downtime—with as much as 120 hours of additional machine output achieved with a typical low-compression, single-screw, 2 1/2" extruder.

This versatile cleaning material has been used by many leading plastic converters to clean extruders, dies, screws, and similar machinery. It is especially economical where product purity requires frequent maintenance—for example, when molding material or color must be changed often, or thin films coated.

Among the many proven applications for Metex copper gauze are removal of “drool” on sheeting extruders or tubing dies, cleaning vent holes in dies and injection molds as well as extrusion screws and barrels. Copper gauze is:

- **Safe**

Soft copper will never scratch or damage costly machine parts. No metal splinters make it safe for workmen, too.

- **Rust-Free**

Pure, solid copper will not rust or contaminate end product.

- **Tough**

Interlocked loops of heavy gauge copper wire make it impervious to disintegration.

- **Effective**

Knitted structure keeps flat wire on edge for excellent scraping action without scratching.

- **Non-Flammable**

Because Metex knitted copper gauze is 100% metal, it can't burn or even smoke when used directly on hot equipment.

- **Low Cost**

Costs less than currently used household-type metallic cleaners.

- **Efficient**

Compared to other methods (charring, wire brushes, metal sponges), Metex knitted copper gauze cleans in less time—often less than one hour to clean a machine.

- **Two Grades in One**

You get two grades of cleaning power in one grade of Metex knitted copper gauze. Use as supplied for normal cleaning, or turn insideout for heavy cleaning.



Cleans Without Scratching or Damaging Critical Working Surfaces—While Costing Less than Other Cleaning Products

Metex copper gauze is knitted from flattened copper wire into a seamless, continuous, flat stocking—giving it excellent scraping properties—while its softness eliminates the danger of scratching or galling hard-metal surfaces. (Small amounts of industrial-grade silicone grease as a release aid will enhance its cleaning properties.)

Metex copper gauze is also economical. In fact, when purchased in 400-foot rolls, Metex copper gauze may actually cost less than common conventional cleaning materials.

Most important are the savings in eliminating equipment downtime. In fact, simply feeding a length of copper gauze through the hopper and into the barrel of a single-stage extruder is often all that is required to adequately clean this equipment without cooldown.

Metex knitted copper gauze is not only efficient and economical in cleaning screws and barrels on plastic extruders, but extrusion dies as well as injection-molding machines.



Metex Knitted Wire Mesh Products Solve Problems Cost Effectively

Metex knitted wire mesh is manufactured from an “endless” wire that is formed into loops and subsequently networked, providing elasticity and resilience not found with woven wire or powdered metal products.

The diversity and versatility of wire mesh enables Metex to produce products for a wide variety of applications. Our **Copper Gauze** continues a longstanding Metex tradition of integrating the right designs, materials, and manufacturing methods to meet customer needs for optimal performance at lowest possible cost.

■ *How to Order*

Write or call Metex for the name of your nearest distributor. Metex Copper Gauze is supplied in double-thickness rolls of 400 feet (approximately 5” wide). It is also available in 100-foot rolls.

■ *Knitted Mesh Applications*

- Seals
- Heat Wicks
- Air Gap Rings
- Breathers
- Noise Attenuators
- Filters
- Coalescers
- Mufflers
- Shock Absorbers
- Gaskets
- Air Filters
- Protective Coverings
- Heat Shields
- Electronic Shielding
- Exhaust Seals
- Navin Rings
- Ball Joint Seal Systems
- Catalytic Converter Support Mesh
- Catalytic Converter End Rings
- Flame Arrestors



Metex Corporation
 970 New Durham Road
 Edison, New Jersey 08818
 Phone: 732-287-0800
 1-800-222-0969
 Fax: 732-287-8546
 E-mail: sales@metexcorp.com

Metex Europe
 4, Rue Pierre Brossolette
 92130 Issy Les Moulineaux
 France
 Phone: 33 (0)1 46 45 99 55
 Fax: 33 (0)1 46 45 99 07

Metex Mexico
 No. 30 Del Centro Industrial Limon Los Pinos
 En Av. Ferrocarril KM 14.5 En El Fracc. Los Pinos
 Tijuana, Baja California Mexico
 Phone: 011-52-66-89-74-34
 Fax: 011-52-66-89-74-53