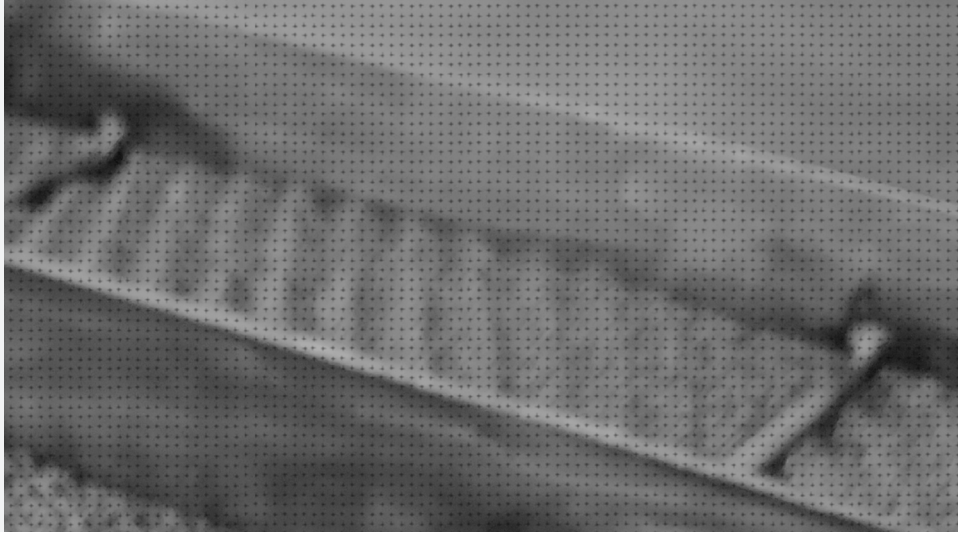
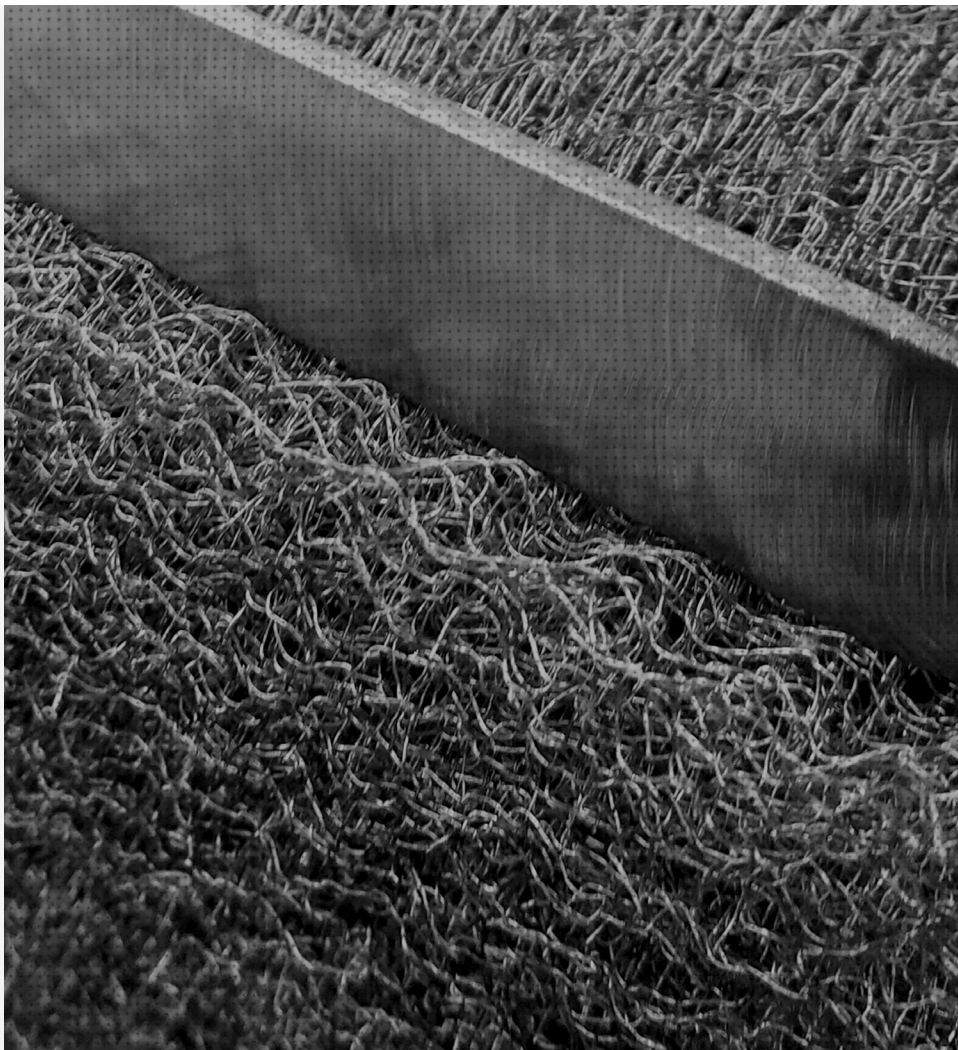


TECH-MESH™
CENTRAL WIRE INDUSTRIES



KNITTED MESH PRODUCTS

800-325-5861
centralwire.com
tech-mesh@centralwire.com

KNITTED WIRE MESH TECHNOLOGY

The Right Wire Grade for your Specific Demister Application

CWI Tech-Mesh™ is knitted on state of the art equipment under strict quality control processes to maximize separation efficiency and minimize pressure drop. Whether the process is mist elimination or oil coalescing, CWI offers mesh pad options in a variety of wire grades, diameters, alloys, mesh densities, and product geometries. Our knitted wire mesh and demister pads are manufactured at our Houston, Texas location.

Mist Eliminators / Demister Pads

CWI has materials and resources to meet your custom mist elimination requirements.

- Mist eliminators are customized specifically to meet each customer's specifications and equipment geometry.
- Mist eliminators are configured to ensure minimum liquid entrainment at maximum flow conditions.
- CWI Tech-Mesh™ demister pads are engineered and fabricated for specific process conditions.
- Densities typically range from 5.0 to 12.0 lb/ft3.
- The industry standard size wire for mist eliminators is 0.011 inches (0.28 mm).

INDUSTRIES SERVED

OIL & GAS

CWI manufactures specialty and exotic wire grades to meet the highly demanding requirements of heat resistance, strength retention and reliability.

APPLICATIONS

Tech-Mesh™ has the engineering capabilities to help customers fabricate the right solution for their particular application, not just manufacture to predetermined specifications. With all our core products produced in-house, we can offer full support when choosing the right wire grade for your exact requirements.

Demister Process Applications

- Gas-Liquid Separators
- Distillation Equipment
- Process Absorbers, Precipitators, and Scrubbers
- Chemical Separators and Extractors
- Oil and Gas Processing Equipment
- Combustion Gas Scrubbers
- Knockout Drums and Receivers
- Refinery Towers
- Liquid-Liquid Coalecers
- Pollution Control Equipment
- Two-Phase Eliminators
- Liquid Entrainment for Compressor Equipment
- Product Recovery Systems

CUSTOM QUALITY MANUFACTURING

Meeting exact customer product dimensional, ductility, and performance specifications requires specialized alloy selection and engineered manufacturing. CWI Tech-Mesh™ can be manufactured in a wide range of wire diameters, alloys, mesh densities, and product geometries under precise production and processing equipment capabilities. CWI produces the core products in-house that comprise the final product including wire, support rods and welding wire.

CWI's engineering team is capable of producing a wide array of product configurations and geometries to your exact specifications:

- Wire grade selection and verification
- Drawing wire to exact size diameter
- Knit configuration setup
- Crimped for correct mesh density construction
- Pad fabrications and construction
- Final product geometry and dimensional control

QUALITY ASSURANCE

CWI engineered products are tailored to your requirements to ensure that your process is optimized and the product lasts.

- Engineering and fabrication consultation services
- Mechanical wire testing measures tensile strength, yield strength, and elongation
- Microscopy evaluation for alloy grain structure and surface quality
- Engineering and manufacturing process process step checks
- Final product thorough inspection
- Fast, reliable shipping, customized inventory and delivery programs
- Customer service: in person, on-line or over the phone

WIRE GRADES

CWI has the widest range of alloys available.

300 Series Stainless

CWI Tech-Mesh™ typically employs 300 series stainless grades (304, 304L, 316, 316L, 321, 347) for its wire mesh mist eliminators.

Specialty Alloys

For extreme or aggressive process conditions with unique product chemistries, CWI has a wide range of specialty alloys such as Monel 400, Copper, Duplex, Alloy 20Cb3, and Inconel. Other exotics and copper base metals may be available upon request. You can choose the wire alloy most suitable to withstand and last under your harsh operating conditions. CWI has the widest range of alloys.

Co-Knits

We can also fabricate “co-knits” using a range of non-metallic synthetic materials such as fiberglass, polypropylene, Dacron, Teflon, and other polymers.

Contact our engineering team to discuss your special mist elimination challenge.

GLOBAL LOCATIONS

Central Wire Industries is a globally positioned wire and wire products manufacturer with the capabilities to meet your local needs, where ever you may be.

Houston, Texas

TECH-MESH™ MANUFACTURING FACILITY

800-325-5861

18430 Kieth Harrow Blvd,
Houston TX 77084

TECH-MESH™
CENTRAL WIRE INDUSTRIES

Help us create a Customer Specific Program to fit your needs and delivery requirements!
If you have any addition questions about our products, contact us with the info below:

800-325-5861

centralwire.com

tech-mesh@centralwire.com

CWI is North America's leader in stainless steel + nickel alloy wires.

Drawing on Innovation.

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