

# *Streamline*®

QUALITY COPPER PRODUCTS FOR TODAY'S NEEDS



Mueller Industries' Streamline® brand changed the plumbing world forever back in 1930 with the invention of the first solder joint copper fitting. That introduction launched Streamline into a position of leadership that we've maintained for over 80 years through continuous in-line product improvements, new product introductions, and a well-earned reputation for technological innovation, superior product quality, and customer service after the sale.

Today, Streamline is the only USA made brand of both copper tube and copper fittings. Our products are precisely manufactured and tested to industry specifications and standards. We are the preferred choice of industry professionals worldwide.

# Streamline®

## SUPERIOR PROCESSES

Only Mueller Industries' Streamline® copper products are made in the USA with the proprietary technologies of DuraGrain™ and TrueCenter™. These industry leading processes provide for more consistent and higher performing copper products and are a few of the many reasons Streamline® copper products are better than the rest.



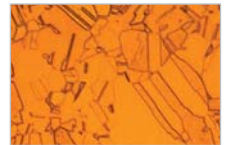
### DURAGRAIN™

- Raw copper is refined to a purity of 99.9%
- Advanced metallurgy results in an optimum grain structure
- Continuous testing for quality and consistency
- Made in the U.S.A.

### High Grain Density Copper for Superior Metallurgy

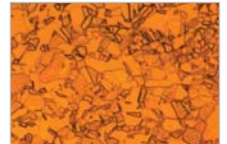
DuraGrain™ is Mueller Industries' proprietary copper, which is carefully refined in our own furnaces to achieve a denser, stronger grain structure with 99.9% copper purity. Whether refined from virgin copper cathode or carefully screened, post-consumer recycled copper, we use advanced metallurgical and spectrum analysis protocols to produce the highest-quality copper in the industry. The more uniform and durable properties of Mueller's DuraGrain™ copper contribute significantly to the superior performance of Streamline copper tube, line sets and fittings.

Sample of ordinary copper grain structure.



100X Magnification.

Sample of high-density DuraGrain™ copper grain structure.



100X Magnification.



- Patented laser-guided system
- Provides uniform wall thickness
- Assures uniform grain consistency
- Made in the U.S.A.

### Precision Extrusion for Consistently Uniform Walls

TrueCenter™ is Mueller Industries' patented, laser-directed precision-extrusion process. Invented by Mueller Industries to extrude copper tube with exceptionally uniform wall thickness, TrueCenter™ ensures that Streamline copper tube, line sets and fittings are highly concentric – so each finished product has consistently strong walls without thin/weak spots that could result in a field failure.



# Streamline®

## SUPERIOR PRODUCTS



### Streamline® Wrot Copper Fittings

All Streamline® fittings are formed to exacting tolerances using blanks we make ourselves from our own manufactured copper tube. From our DuraGrain™ copper, to our TrueCenter™ precision-extrusion process, to our sophisticated push-form manufacturing processes, to our smart-vision inspection systems – and right down to the piece by piece hand inspections – we take every step possible to ensure that each Streamline fitting will exceed your expectations.

- Made from DuraGrain™ Copper – a Mueller Industries Exclusive
- Formed from Precision Extruded Streamline® Copper Tube
- Made to ASME Standard B16.22
- NSF Certified
- Manufactured in the U.S.A.



### Streamline® Copper Tube

Our Streamline® brand has set the standard of excellence for over 80 years. We take pride in maintaining our leadership position as the best manufacturer of quality copper tube in the world, and we work hard through research, development and testing to guarantee that the Streamline copper tube you buy will always be the highest quality obtainable.

- Engineered and Tested for R-410A and CO2
- Made from DuraGrain™ Copper – a Mueller Industries Exclusive
- Precision Extruded using TrueCenter™ Laser Technology – a Mueller Industries Exclusive
- Made to ASTM Standard B-88, B-306, B-280, B-819
- NSF Certified
- Manufactured in the U.S.A.



### Streamline® Line Sets

We leverage our 75+ years of experience and expertise in copper tube manufacturing in every line set we make. From liquid line and suction line handling to unique insulation applications and packaging, every line set meets rigorous standards for quality and consistency so our customers can be confident they're using the best line set on the market.

- UL Recognized at 700 PSI MWP
- R410A Engineered & Tested
- Insulation meets ASTM C-534 & UL 25-50 Fire & Smoke Rating
- Integrated production processes eliminate kinking and work-hardening associated with other line sets
- Manufactured in the U.S.A.



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