

**COPPER PIPE**

**CMC HOWELL METAL**



To Whom It May Concern:

This is to certify that all copper tubing used in the production of line sets made by CMC Howell Metal, New Market, Virginia is manufactured in the U.S.A. to conform to the requirements as set forth in the following specifications:

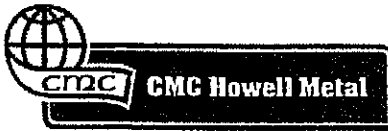
ASTM B-280 for Seamless Copper Tube for Air Conditioning and Refrigeration Field Service. The line-set liquid and suction lines are nitrogen charged, plugged and annealed dead soft.

#### Chemical Composition

Copper – 99%  
Phosphorous - .015 - .040% Range

CMC Howell Metal

Timothy Brannon,  
Works Manager  
KB/ac



## Product Certification

CMC Howell Metal copper tubing products conform to current industry standards using the referenced American Society of Testing and Material (ASTM) standards and Federal Specifications WWT-775B and WWT-799B.

Chemical Composition (UNS C12200): Copper (Cu) 99.9% minimum, Phosphorus 0.015 – 0.040% range

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### SEAMLESS COPPER WATER TUBE – Types K, L, & M

ASTM B-88

*Restriction Statement: "Copper tube (Alloy C12200) is certified by NSF to ANSI/NSF Standard 61 for public water supplies meeting, or in the process of meeting the U.S. EPA Lead and Copper Rule (56FR26460, June 7, 1991). Water supplies with pH less than 6.5 may require corrosion control to limit copper solubility in drinking water".*

### SEAMLESS COPPER WATER TUBE – Type DWV

ASTM B-306

### SEAMLESS COPPER TUBE FOR MEDICAL GAS SYSTEMS

ASTM B-819

*Manufactured tubes undergo a cleaning process and are then plugged and charged with dry nitrogen with the exception of "K/OXY" which is cleaned, purged with dry air and capped.*

*All tubing manufactured by CMC Howell Metal labeled as "ACR", "ACR/OYX", or "OXY" has been manufactured to meet the cleanliness requirements of 0.0035 g/ft<sup>2</sup> maximum as required by the guidelines of ASTM B-819 Standard Specification for Seamless Copper Tube for Medical Gas Systems.*


### SEAMLESS COPPER TUBE FOR AIR CONDITIONING AND REFRIGERATION FIELD SERVICE

ASTM B-280

*Manufactured straight length tubes undergo a cleaning process and are then plugged and charged with nitrogen.*

*Manufactured coiled length tubes undergo a cleaning process and are then purged with dry nitrogen and capped.*

**All manufactured material printed or incised  
"HOWELL", "HOWELL USA", "CMC HOWELL", or "CMC HOWELL USA"  
is proudly made in the United States of America**

  
Timothy Brannon  
Vice President, Operations





To Whom It May Concern:

CMC Howell Metal manufactures its copper tube in New Market, Virginia from 100% recycled copper scrap.

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