MATERIAL DATA SHEET (MDS)

GEL29® Copper Coils

Seamless HVACR Copper Coils per ASTM B280 / ASTM B1003

This technical data sheet summarizes the definitive material, chemical, mechanical, physical, and dimensional requirements for Soft Seamless Copper Coils for general HVAC applications, strictly governed by standard specification ASTM B280.

1. Material Description & Copper Specifications

- **Product Brand Name:** GEL29 COPPER COIL
- **Copper:** ACR copper tube manufactured according to ASTM B280 / ASTM B1003 - C12200 DHP - 700 PSI - 99.9% pure. Compatible with R410 and A2L gases.

2. Chemical & Mechanical Properties

Technical Parameter	Specification Value
Copper Alloy Number	UNS C12200
Minimum Copper Content (Cu %)	99.9% Min
Phosphorus Content	0.015% TO 0.040%
Material Temper	060 (Soft Annealed)
Mechanical Strength Metrics	Tensile Strength: 205 MPa (30 ksi Min) Elongation: >40% Expansion Test: Min 40%

3. Safety, Sustainability, & Environmental Declarations

- **California Proposition 65 Declaration:** All PDM US LLC commercial formulations completely exclude substances regulated under California's Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65). No warning labels are required.
- **Recyclability:** In alignment with circular economy practices, all physical components and metals are 100% recyclable.
- **Build America Buy America Act (BABA):** PDM products are manufactured in full structural compliance with federal domestic sourcing requirements under the Build America Buy America Act, supporting domestic infrastructure and procurement tracks.