

With ULTRA Series[®] gas production plants, AMCS supplies metal producers with the on-demand means to generate the industrial gases necessary to keep production furnaces operating. AMCS technology can help increase efficiency throughout the entire metal production process.

Applications:

- Electric arc furnaces
- Basic oxygen furnaces
- Stainless steel making foundries

Gases and Liquids

- Argon
- Nitrogen
- Oxygen

Application Examples:

- Nitrogen , specific to Inerting and Purging in the Metal Production arena, is used to:
 - activate shutoff switches in furnaces and burners
 - discharge gas and slag by bubbling through porous bed stones or lances
 - in nozzle atomization to spray metal melts and gain high quality metal powers
 - sinter metallurgical powers under shielding gas
- Nitrogen , specific to Cooling, Preserving and Deep Freezing in the Metal Production arena, is used for:
 - Temper and harden metal parts through high pressure (HP) gas quenching after annealing furnaces
 - embrittle knock off lugs and cast iron
 - remover residual austenite in hardened steel parts using cooling baths
- Oxygen, specific to combustion and chemical oxidation by replacing air in the Metal Production arena, is used to:
 - Refine pig iron in converters
 - Melting, refining and alloying with Oxygen lances in electrical arc furnaces
 - Increase burner and furnace performance for
 - Blast furnaces
 - Aluminum or Copper furnaces
 - Blast
- Argon, specific to low reactive gases, high inert capability, thermal conductivity and solubility in water and oils in the Metal Production arena, is used to:
 - Feed powered alloy components into steel and other metal melts
 - Atomise molten metals with high-pressure jets for producing high-quality metal powders
 - Anneal stainless steal
 - Prevent oxidation of hot, light metal alloys

To learn more about AMCS ULTRA-N™ Series Nitrogen Plants [click here](#).

To learn more about AMCS ULTRA-O™ Series Oxygen Plants [click here](#).

To learn more about AMCS ULTRA-A™ Series ASU Plants [click here](#).

To learn more about AMCS ULTRA Series® Plants [click here](#).