metco
joining & cladding

Application Bulletin
General Industry
Bottling – Filling Nozzles

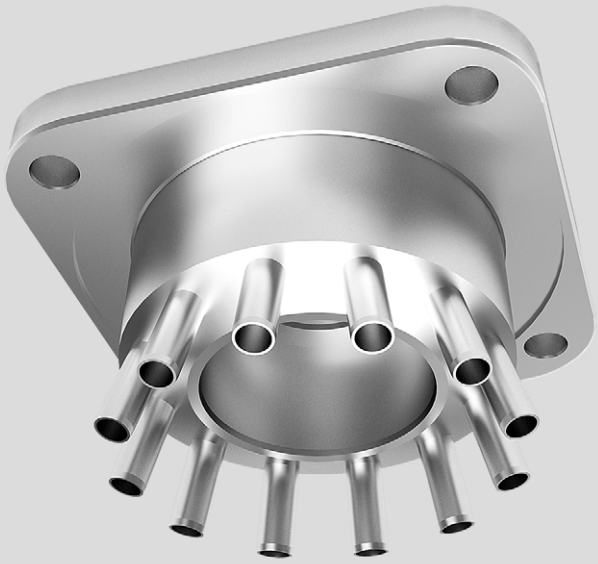
Designers of food preparation equipment face the challenge of how to join the sub-components of complex assemblies so that they meet all government and industrial regulations. Brazed joints must not only be free of voids (where contamination can accumulate in service), but the joints must also be able to withstand chemically harsh and frequent cleaning cycles without pitting or weakening. Components used for food and beverage processing undergo extensive testing by the equipment manufacturer to ensure compliance to the standards that safeguard the public.

The Metco Joining & Cladding Solution

Metco Joining & Cladding offers corrosion- and oxidation-resistant nickel-based brazing filler metals that are widely used throughout the industry. They are compatible with government and industrial regulations for processing foods and liquids for human consumption.

- Specific nickel-based filler metals design to withstand aqueous- or chemical-based cleaning treatments
- Consultation on correct joint design and alloy selection to ensure joints are void-free to prevent contamination
- Availability of alloys with different brazing melt temperatures for use on components used in high temperature or ambient applications

Bottling plant filling nozzle



Bottling plant filling station

Recommended Metco Joining & Claddig Products		More Information
Amdry 770 (AMS 4777)	Low temperature filler metal, excellent flow properties; chromium additive provides corrosion resistance; available in many forms (powder, paste and tape) for ease of application	DSM-0337
Amdry 780 (AMS 4778)	Chromium free with high nickel content that provides the required corrosion resistance; good flow for deep joint penetration	DSM-0284
Amdry 790 (AMS 4779)	Chromium free with sluggish flow properties for ductile and machinable joints	DSM-0340
Amdry 100 (AMS 4782)	High chromium filler metal; excellent when joint corrosion and oxidation resistance is a priority	DSM-0241

Information is subject to change without prior notice.

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www.metcojoiningcladding.com
info@metcojoiningcladding.com