MATHESON Select® Shielding Gas H-3 for GTAW on Stainless Steel

Faster processing; minimization of heat-related problems; and a more controllable arc

Faster travel speeds, enabled by the addition of a small concentration of Hydrogen* in MATHESON *Select*® H-3 Shielding Gas, reduce heat-related problems - such as warpage, distortion and poor color match; while also delivering a more highly focused, more controllable arc.

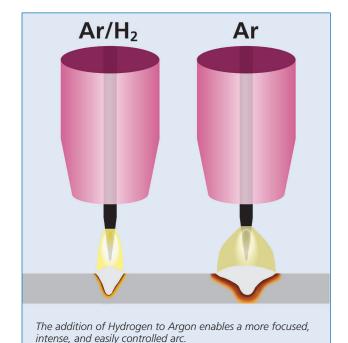
Typical challenges when welding on stainless steel

- Hexavalent chromium emission can be problematic with any nickel-containing alloy
- Stainless steel is susceptible to heat absorption and oxidation

Key Benefits of H-3

- Considerably faster travel speeds
- Reduced fume and hexavalent chromium emission
- Better color match
- Increased impact properties
- Smaller heat affected zone and lower surface oxidation
- Very high, narrowly focused heat transfer for improved arc control
- Excellent wetting action
- Faster travel speed reduces negative impact on mechanical properties
- Ideal for narrow welds as small as 1/16 inch
- Ideal for use as a backing gas to produce smooth, oxidation-free penetration welds on tubes, pipe, and tanks

*H-3 MATHESON Select® Shielding Gas uses a CGA 350 cylinder valve outlet connection





All MATHESON Select® Shielding Gas Mixtures are certified to AWS A5.32 and ISO 14.175 Standards - the best choice for mixture quality, welding efficiency, and to ensure compliance in certified welding operations.

Tel: 877-684-4427 Email: info@mathesongas.com www.mathesongas.com Printed in USA TB169 4/2021





Copyright 2021 Matheson Tri-Gas, Inc. All Rights Reserved.

All contents of this document are subject to change without notice and do not represent a commitment on the part of Matheson Tri-Gas, Inc. Every effort is made to ensure the accuracy of this information. However, due to differences in actual and ongoing operational processes and product improvements and revisions, Matheson Tri-Gas, Inc. cannot guarantee the accuracy of this material, nor can it accept responsibility for errors or omissions. This document is intended to serve as a general orientation and cannot be relied upon for a specific operation. No warranties of any nature are extended by the information contained in these copyrighted materials.

All names, products, and services mentioned herein are the trademarks or registered trademarks of Matheson Tri-Gas, Inc.