

# MATHESON Select® Shielding Gas C-25 Certified 75/25 (Ar/CO<sub>2</sub>) Shielding Gas Mixture

**Certified to AWS A5.32 and ISO 14.175 Standards** - the best choice to ensure compliance during certified welding operations; and for maximum use of each cylinder fill in any application.

## Why Choose a Certified 75/25 Ar/CO<sub>2</sub> Mixture?

**Improved Compliance.** Welding gases that are out-of-spec can jeopardize any process that needs to remain in compliance with code requirements. MATHESON Select® C-25 is a premium 75/25 Ar/CO<sub>2</sub> shielding gas mixture with the added benefit of mixture traceability and certification.

In a certified process, if gas is discovered to be out-of-spec, the production welds made with out-of-spec gas may be subject to re-inspection, re-work, or scrap. The use of MATHESON Select® C-25 Shielding Gas safeguards against such difficulties.

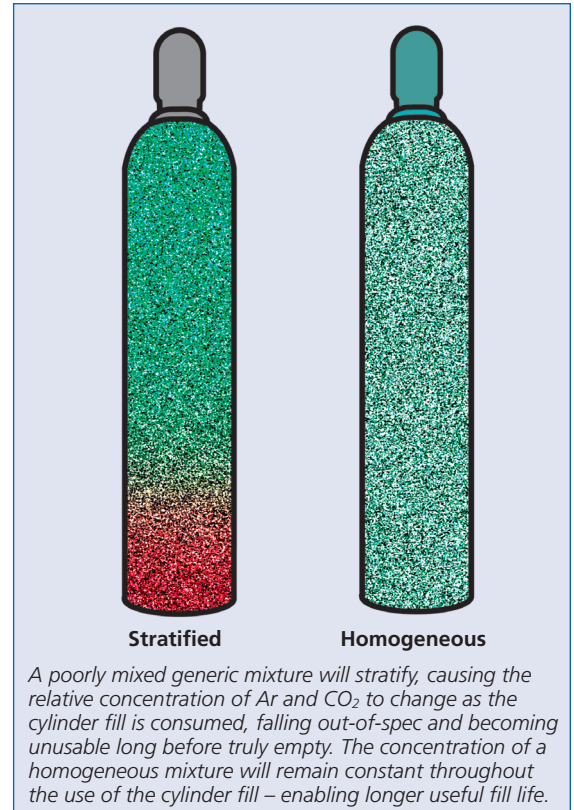
**Better Performance & Less Waste.** The use of 75/25 Ar/CO<sub>2</sub> is common in many welding applications. Argon and Carbon Dioxide, if not mixed properly, will stratify in the cylinder (Argon will rise to the top of the cylinder and be used first).

A stratified gas mixture will result in a continuous change in gas composition as the contents of the cylinder are consumed. In the case of Ar/CO<sub>2</sub>, the Argon concentration will decrease as product is withdrawn. This leads to premature degradation of welding performance (increased spatter and fumes), and renders the mixture unusable long before the cylinder is truly empty. Any discarded residual volume is wasted.

MATHESON Select® C-25 is precisely and homogeneously mixed - not always the case with generic mixtures - ensuring the consistency of the gas during the entire fill. Less wasted gas adds up to higher productivity and lower overall cost and less wasted time changing cylinders.

## Key Benefits of C-25

- Certified to comply with AWS A5.32 Standards and ISO 14.175 Standards
- Consistent, repeatable performance
- Assured compliance - throughout the life of the cylinder - suitable for any audit, site check, or inspection
- Longer cylinder fill life - homogeneously mixed to enable more complete usage of cylinder contents
- Homogeneous mixture characteristics eliminate the need to adjust welding parameters (voltage, wire feed speed) over the lifetime of the cylinder
- The use of a certified shielding gas mixture enables transferability of processes and parameter settings between welding systems and projects



**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](mailto:info@mathesongas.com)  
[www.mathesongas.com](http://www.mathesongas.com)  
Printed in USA TB171 4/2021



**American Welding Society**  
Sustaining Company Member



**MATHESON**  
The Gas Professionals

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 their respective organizations and are the sole property of their respective owners. Matheson and the Matheson logo are registered trademarks of Matheson Tri-Gas, Inc.