

ARCAL[™] 21

Shielding Gas for Arc Welding



Recommended Applications for ARCAL 21

- All purpose GMAW welding of carbon steels
- GMAW welding of solid and metal cored wires
- Outstanding for short circuit, pulse and spray transfer modes
- Facilitates fast welding speeds for automatic and robotic welding
- Suitable for both indoor and outdoor welding
- Recommended for applications where high deposition rate, and low fumes and spatters are desirable

Benefits and Features

- Excellent travel speed and penetration promote greater efficiency and productivity.
- Reduces smoke and spatter for a safer operating environment.
- Meets AWS 5.32 specifications.
- Achieves superior surface finishes that minimize clean-up.
- Consistent weld metal chemistry and mechanical properties ensure reliability and provide a very low surface oxidation.
- Stable arc properties help ensure good wetting and bead profile.
- Dedicated cylinders and lot-batched to ensure purity and traceability.
- Exclusive SMARTOP[™] valve and SCANDINA[™] cap improve safety and ease-of-use.



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The SMARTOP™ Cylinder Valve Exclusively from Air Liquide

- Positive ON/OFF lever action prevents gas leaks common to traditional valves.
- ON/OFF lever opens and closes valve quickly in a single action and provides positive visualization of valve status.
- Built-in pressure gauge shows cylinder contents at a glance without having to open the valve.
- Accurate function is tested by Air Liquide during every cylinder refill.
- Includes a Residual Pressure Valve (RPV) to prevent atmospheric contamination of cylinder contents.
- SCANDINA™ cap permanently protects SMARTOP cylinder valve and allows easier, safer cylinder handling.
- Homogeneous blends improve gas consistency to promote increased productivity and quality.



ARCAL 21 produces excellent penetration and wetting, plus low spattering and fumes to improve operator's environment.



ARCAL 21 ensures high productivity and reduces spatters in robotic welding.

Available Packaging

	50 Liter Cylinder	16-Cylinder Pack*	Portable Liquid Cylinder	Bulk
Pressure (psi)	2640	2640	•	•
Volume (scf)	350	5600	•	•

* ARCAL 21 is available in single cylinders and 16-cylinder packs when larger quantities are needed.
 • Consult your Air Liquide representative.

Purity Guarantee and Analysis

	ARCAL 21	Benefits
Moisture	32 ppm max	low humidity content reduces cold cracking sensitivity
Nitrogen	200 ppm max	low nitrogen content ensures consistent mechanical properties

Your Safety is our Concern

Before using ARCAL 21 or any other compressed gas, always read and understand the appropriate Material Safety Data Sheet (MSDS).



Founded in 1902, Air Liquide is the world leader in industrial and medical specialty gases and related services, providing innovative solutions for the manufacture of everyday products and for the protection of life.

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