

Beverage Processing



Specially-designed solutions to protect oxygen-sensitive beverages throughout every stage of the process

- Preserve the colour, flavour and nutritional attributes of your beverage product with an all natural solution while optimizing your formulation costs
- Extend product shelf life and improve quality by minimizing the dissolved oxygen levels which can otherwise contribute to oxidation damage
- Prevent package collapse in PET bottles and metal containers

ALIGAL™

Quality you can depend on...

- Food grade gases compliant with local regulations & HACCP* methodology
- Traceability and product recall systems are in place
- Easy access to proof of compliance documentation

* Hazard Analysis and Critical Control Points

Reliability when you need it..

- The same quality & consistency anywhere in the world
- Different storage vessel sizes to adapt to your changing gas requirements
- Automated re-ordering services to ensure continuous supply

Nitrogen	Carbon Dioxide
<ul style="list-style-type: none"> • Colourless & odourless • Tasteless • Low solubility in water 	<ul style="list-style-type: none"> • Colourless & odourless • Creates a slightly acidic taste • Very soluble in water

ALIGAL™ can be used throughout the beverage process for deoxygenation, pressure transfer, purging, inerting, container pressurization and bottling applications:

Beverage	ALIGAL™ 1	ALIGAL™ 2
Beer	•	•
Carbonated Beverages	•	•
Fruit Juice & Concentrates	•	
Non-Carbonated Beverages including Still Water	•	

Note: For oxygen enrichment applications in water and beer, use ALIGAL™ 3 / For carbonation, use ALIGAL™ DRINK

Let Air Liquide's food specialists recommend the best ALIGAL™ solution for your process requirements.

ALIGAL™ purity protects the quality of your beverage products:

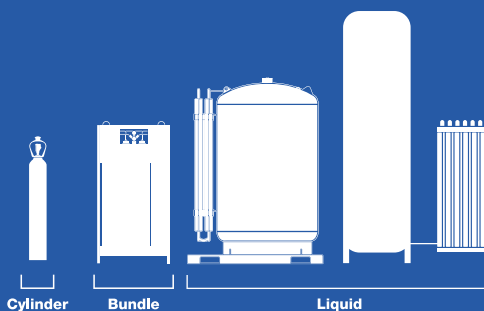
Products Specifications	ALIGAL™ 1	ALIGAL™ 2
Gas purity - Gas composition	$N_2 \geq 99.995\%$	$CO_2 \geq 99.9\%$
H ₂ O (ppm v/v)	≤ 50	≤ 50
O ₂ (ppm v/v)	≤ 20	≤ 30
CO (ppm v/v)	≤ 10	≤ 10
NO/NO ₂ (ppm v/v)	≤ 10	≤ 10
C _n H _m (ppm v/v)	≤ 30	≤ 30
Total Sulphur (ppm v/v)		≤ 0,5 ⁽³⁾
NVOR ⁽¹⁾ (ppm w/w)		≤ 5 ⁽³⁾
Tests ⁽²⁾		tests passed

(1) NVOR = Non Volatile Organic Residue (oil, grease)

(2) "Acidity" test and "Reducing substances + hydrogen phosphide & sulfide" test

(3) Guaranteed in the liquid CO₂ raw product

ALIGAL™ is available with the best choice of supply modes to ensure quality, consistency, reliability and cost competitiveness.



ALIGAL™ is part of our Nexelia for Oxygen Management "all-in-one" solution.

Please contact your local sales representative for more information.



www.airliquide.com

The world leader in gases, technologies and services for Industry and Health, Air Liquide is present in 80 countries with approximately 67,000 employees and serves more than 3 million customers and patients.