

## 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

# 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

\* Hazard Analysis and Critical Control Points

Nitrogen	Carbon Dioxide
<ul> <li>Colourless &amp; odourless</li> <li>Tasteless</li> <li>Low solubility in water</li> </ul>	<ul> <li>Colourless &amp; odourless</li> <li>Creates a slightly acidic taste</li> <li>Very soluble in water</li> </ul>

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

Beverage	ALIGAL <sup>™</sup> 1	ALIGAL™2
Beer	٠	•
Carbonated Beverages	٠	•
Fruit Juice & Concentrates	٠	
Non-Carbonated Beverages including Still Water	٠	

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<sup>™</sup> purity protects the quality of your beverage products:

Products Specifications	ALIGAL™1	ALIGAL™2
Gas purity - Gas composition	N <sub>2</sub> ≥ 99.995%	CO₂≥99.9%
H <sub>2</sub> O (ppm v/v)	≤50	≤50
O <sub>2</sub> (ppm v/v)	≤20	≤30
CO (ppm v/v)	≤10	≤10
NO/NO <sub>2</sub> (ppm v/v)	≤10	≤10
C <sub>n</sub> H <sub>m</sub> (ppm v/v)	≤30	≤30
Total Sulphur (ppm v/v)		≤ 0,5 <sup>(3)</sup>
NVOR <sup>(1)</sup> (ppm w/w)		≤ 5 <sup>(3)</sup>
Tests <sup>(2)</sup>		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  $\rm CO_2$  raw product

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



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

Please contact your local sales representative for more information.



#### www.airliquide.com

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