

TECHNICAL DATA SHEET (TDS)

GEL-ICE and VARTDAL ICE

Document No.: TDS-CP-001

Revision: 1.0

Issue Date: 25.08.2026

1. Manufacturer

Vartdal Plastindustri AS

Vartdalsstranda 1072

NO-6170 Vartdal

Norway

www.vartdalplast.no

2. Product Scope

This Technical Data Sheet applies to GEL-ICE and VARTDAL ICE cooling packs manufactured by Vartdal Plastindustri AS, including the following product families:

- **GEL-ICE** – Product IDs beginning with AB followed by numerical characters (ABxxx)
- **VARTDAL ICE** – Product IDs beginning with ABI followed by numerical characters (ABlxxx)

The product families include standard products as well as customer-specific sizes and configurations manufactured within the applicable product specifications.

3. Product Description

GEL-ICE and VARTDAL ICE are flexible cooling packs intended for cooling of temperature-sensitive products.

The products are manufactured from laminated plastic film which is filled and heat-sealed. Horizontal and/or vertical welds may be used to produce different sizes and chamber configurations.

GEL-ICE: Plastic film filled with water and polyacrylate, forming a gel.

VARTDAL ICE: Plastic film filled with water.

4. Intended Applications

Typical applications include:

- seafood;
- other food products; and
- other temperature-sensitive products.

GEL-ICE and VARTDAL ICE may be used in direct contact with unpackaged seafood as well as together with packaged food products.

Applications and the required quantity of cooling packs may vary depending on the product, required temperature, transport time, packaging solution and distribution conditions.

5. Material

The products are manufactured from laminated flexible plastic film supplied for food-contact applications.

Depending on the product specification, the film may contain combinations of PE and PP/BOPP or PET/BOPET layers together with laminating adhesive and applicable processing additives.

GEL-ICE is filled with water and polyacrylate, while VARTDAL ICE is filled with water.

Filling and heat sealing are carried out by Vartdal Plastindustri AS.

6. Product Performance

GEL-ICE and VARTDAL ICE are designed to provide cooling during storage and distribution of temperature-sensitive products.

The products are frozen before use when frozen cooling is required. Freezing time depends on product size, freezing method, freezer capacity and operating conditions.

The required quantity and configuration of cooling packs depend on the intended application and required cooling performance and should be determined accordingly.

7. Technical Characteristics

Property	GEL-ICE	VARTDAL ICE
Product type	Flexible cooling pack	Flexible cooling pack
Filling	Water and polyacrylate	Water
Structure	Heat-sealed laminated plastic film	Heat-sealed laminated plastic film
Configuration	Standard and multi-chamber configurations	Standard and multi-chamber configurations
Product identification	ABxxx	ABIxxx
Food contact	Suitable	Suitable
Freezing before use	Yes, when frozen cooling is required	Yes, when frozen cooling is required
Shelf life	No defined expiry date under appropriate storage conditions	No defined expiry date under appropriate storage conditions

Food Contact Compliance

GEL-ICE and VARTDAL ICE are suitable for food-contact applications, including direct contact with seafood.

Food contact compliance is documented through EK Declarations issued by the Norwegian Packaging Convention (Emballasjekonvensjonen). The declarations are valid for two years and are renewed based on updated supporting documentation. Relevant changes affecting compliance are subject to reassessment.

Current product and food contact documentation is available at:

GEL-ICE: <https://vartdalplast.no/produkt/gel-ice/>

VARTDAL ICE: <https://vartdalplast.no/produkt/vartdal-ice/>

8. Product Range

GEL-ICE is available in a range of standard sizes and configurations.

VARTDAL ICE is currently supplied primarily as a 500 g DUO configuration (ABI50).

Customer-specific sizes and configurations may also be produced within applicable manufacturing specifications.

Current product dimensions, configurations and availability are provided through the company's product information and sales documentation.

9. Storage and Handling

Products should be stored in clean, dry conditions at a stable temperature.

Large or rapid temperature changes should be avoided during storage, as condensation may occur. Where products are stored in cardboard transport packaging, excessive condensation may reduce the stacking strength of the cartons.

The products have no defined expiry date when stored under appropriate conditions and where the film and seals remain intact.

Products with visible damage, leakage or compromised seals should not be used in direct contact with food.

10. End-of-Life

The plastic film and filling medium can be separated after use.

Disposal and recycling should follow applicable local waste-management requirements.

11. Chemical Information

REACH

The products comply with the applicable requirements of Regulation (EC) No. 1907/2006 (REACH).

Substances of Very High Concern (SVHC)

Based on supplier declarations and available chemical safety information, the plastic films do not contain Substances of Very High Concern (SVHC) above the reporting threshold defined in Article 33 of Regulation (EC) No. 1907/2006 (REACH).

PFAS

The plastic films used for GEL-ICE and VARTDAL ICE have been assessed for compliance with the PFAS concentration limits applicable to food-contact packaging under Article 5(5) of Regulation (EU) 2025/40 (PPWR).

Based on supplier declarations and supporting laboratory testing, the plastic films comply with the applicable PFAS limits.

12. Document Information

Document Number	TDS-CP-001
Revision	1.0
Issue Date	25.08.2026
Issued by	Vartdal Plastindustri AS