

PRODUCT DATA SHEET

ART-DF

Defoamer

Description

ART-DF is a concrete defoamer independently developed and owned by ARIT with intellectual property rights. This product can effectively and durably reduce the formation of air bubbles in concrete, lower the air content in concrete, and increase its density.

Main benefits/Characteristics

- **Excellent Defoaming Effect:** Rapid defoaming rate and long-lasting defoaming capability.
- **Strong Adaptability:** Suitable for various types of concrete and can be used in combination with other concrete admixtures.
- **No Adverse Effects:** Slightly increases the strength of concrete and has no negative impact on the strength development of concrete.

Applications

- Precast components
- Ultra high performance concrete
- Self-compacting concrete
- Ordinary ready mixed Concrete
- Fair-faced concrete

Physical and chemical indicators

Items	Performance
Appearance	Semi-transparent liquid
Solid content/%	97±2
pH (1% aqueous solution)	6±1.5

Application Case

- Pier column

On a high-speed rail project, the pier columns showed numerous surface blowholes after form removal. After adding our ART-DF defoaming agent, the visual quality of the piers improved dramatically—no bubbles visible to the naked eye.

Usage Instructions

- The recommended effective solids content is 0.0005 % - 0.005 % of the total cementitious materials; the exact dosage must be predetermined through trial tests according to the raw materials, job-site conditions, construction codes, and technical requirements.
- Any change in materials or environmental conditions may also cause the dosage to vary within a certain range, so new tests are required to re-establish the optimum dosage.

Packaging

IBC Tank or Flexitank for customer demand

Storage

- It should be stored in a cool and dry place, avoiding direct sunlight, and kept in a dedicated warehouse or a fixed location.
- The effective storage period is 1 year. It can still be used after being tested and verified to be qualified if it exceeds the time limit.

Precautions

- When changing the type of cement or using newly delivered cement, a compatibility test should be conducted.
- Do not use in combination with naphthalene-based admixtures. When using in

combination with other admixtures, compatibility tests should be performed.

- Strictly follow the construction specifications during application.
- The product information is only used to describe the product's characteristics and functions, and it is not a guarantee. Users are also required to carefully test the product's functions and its suitability. The functions and suitability of the product must be verified through testing conducted by qualified professionals.

Legal Notes

- Retaining or disclosing product samples without the company's explicit permission is strictly prohibited.
- In addition to the product quality itself, the actual performance also depends on other uncontrollable factors. If there are uncontrollable factors, company cannot guarantee the performance of the product.
- Users are requested to strictly follow the technical guidance and product instructions for use. The company shall not be liable for any consequences resulting from unauthorized changes to the product usage method without the company's authorization.