

# TECHNICAL DATA SHEET (TDS)

## INORGANIC DE-SCALER

(Formulated with Advanced Mineral-Scale Dissolution Agent – AMDA Type)

### 1. PRODUCT OVERVIEW

Inorganic De-Scaler is a high-performance inorganic descaling formulation designed for generator heat exchanger plates and industrial heat-transfer systems. It effectively removes mineral scale, rust, calcium carbonate, magnesium deposits, and iron oxides using an Advanced Mineral-Scale Dissolution Agent (AMDA-Type) integrated with a corrosion inhibition system.

### 2. KEY FEATURES

- Rapid mineral-scale dissolution
- Effective against calcium, magnesium, and iron oxide deposits
- Built-in corrosion inhibitors for equipment protection
- Improves heat-transfer efficiency
- Low-foaming formula ideal for circulation cleaning
- Suitable for CIP, immersion, and onsite flushing

### 3. TYPICAL APPLICATIONS

- Generator Heat Exchanger Plates
- Plate Heat Exchangers (PHE)
- Cooling System Pipelines
- Condensers & Heat-Transfer Equipment
- Closed-Loop Cooling Water Systems
- Power Plant Heat Exchanger Assemblies

### 4. TECHNICAL SPECIFICATIONS

Parameter	Typical Value
Appearance	Clear, Colorless to Light Yellow Liquid
Odor	Mild acidic
pH (1% Solution)	1.0 – 2.0
Specific Gravity	1.15 ± 0.02
Solubility	Completely Soluble in Water
Active Ingredient	AMDA-Type Dissolution Agent
Foaming Tendency	Very Low

### 5. USAGE GUIDELINES

#### Circulation Cleaning:

- Light Scale: 5% solution for 15–25 minutes
- Medium Scale: 8–10% solution for 25–40 minutes

- Heavy Scale: 10–15% solution for 40–60 minutes

Immersion Cleaning:

- 5–12% solution for 30–60 minutes

## 6. MATERIAL COMPATIBILITY

Material	Compatibility
Stainless Steel	Excellent
Mild Steel	Good
Copper / Brass	Safe
Titanium	Safe
Aluminum	Not Recommended

## 7. STORAGE & HANDLING

- Store in a cool, dry place
- Keep container sealed and upright
- Wear gloves, goggles, and protective clothing
- Avoid direct contact with skin and eyes

## 8. PACKAGING

Available in 5 L, 20 L, 25 L, and 200 L industrial-grade HDPE containers.

## 9. SHELF LIFE

24 months in sealed original container under recommended storage conditions.

## 10. SAFETY NOTES

- Do not mix with oxidizers or alkaline chemicals
- Use in well-ventilated areas
- Rinse equipment thoroughly after use