TECHNICAL DATA SHEET

Product: **Dana Corrosion Inhibitor Additive**

CHEMICAL COMPOSITION

Mixture of high-concentrated corrosion inhibitor according to STN 66 8910, ASTM D 1384, TL 774-D, TL 774-F.

APPLICATIONS

Dana Corrosion Inhibitor Additive is used as:

- An anticorrosive agent in monoethylene glycol-based systems with a highly effective combination of inhibitors.
- A high-quality solution allowing an economical mixture ratio: only Dana Corossion Inhibitor Additive with monoethylene glycol.
- The quality of the inhibitors allows the use of glycerin in the final antifreeze formulation, providing cost benefits.

PROPERTIES

Dana Corossion Inhibitor Additive exhibits:

- Pure liquid form
- Unlimited solubility in monoethylene glycol
- Excellent corrosion and cavitation protection
- Proven resistance against corrosion of aluminum, brass, copper, iron, steel, and solder

SPECIFICATIONS

- Smell: Minimal
- pH: ~9
- Density: ~1100 kg/m³
- Pour Point: ~-50°C
- Boiling Point: ~110°C

FINAL PRODUCT AT 7% FEEDING

Parameter	Norm	Result
Reserve Alkalinity	ASTM D1121	4.5 – 5.0 ml
pH (33% vol.)	ASTM D1287	8.2 – 8.5
Foaming Properties	ASTM D1881	14 vol./3s
Boiling Point	ASTM D1120	175 – 190°C
Density @ 20°C	ASTM D1122	1.12 kg/m³
Free Water	Karl Fischer	~3%
Refractive Index	DIN 51423	~1.43

FINAL PRODUCT AT 8% FEEDING

Parameter	Norm	Result
Reserve Alkalinity	ASTM D1121	5.0 – 5.5 ml
pH (33% vol.)	ASTM D1287	8.2 – 8.7
Foaming Properties	ASTM D1881	16 vol./3s

DANALUBES®

Parameter	Norm	Result
Boiling Point	ASTM D1120	175 – 190°C
Density @ 20°C	ASTM D1122	1.12 kg/m³

DISPATCH AND STORAGE

- Transport using sealed equipment.
- Store in original sealed packaging within closed warehouses.
- Supplied in road tankers, IBC containers, or drums.
- Shelf life: 24 months.

SAFETY AT WORK

- Harmful if swallowed; avoid ingestion.
- Wear protective clothing, gloves, and safety goggles.
- If in contact with eyes, rinse under running water for 20–30 minutes.
- If swallowed, seek medical help immediately and present product label/container.

CERTIFICATE: CORROSION PROPERTIES (ASTM D1384)

7% Dana Corossion Inhibitor Additive + 93% Monoethylene Glycol

Metal	Limit (mg/sample)	Measured (mg/sample)
Copper	<10	0.4
Solder	<30	0.3
Brass	<10	0.6
Steel	<10	0.2

Metal	Limit (mg/sample)	Measured (mg/sample)
Cast Iron	<10	1.6
Silumin	<30	1.2

CERTIFICATE: 7% + 20% Glycerin + 73% Monoethylene Glycol

Metal	Limit (mg/sample)	Measured (mg/sample)
Copper	<10	1.0
Solder	<30	4.0
Brass	<10	1.2
Steel	<10	0.3
Cast Iron	<10	1.5
Silumin	<30	2.0

ASTM D 2570 – Simulated Service Corrosion Testing

7% Dana Corossion Inhibitor Additive + 93% Monoethylene Glycol

Metal	Limit (mg/sample)	Measured (mg/sample)
Copper	<20	3.0
Solder	<60	10.5
Brass	<20	4.0

Metal	Limit (mg/sample)	Measured (mg/sample)
Steel	<20	4.0
Cast Iron	<20	5.0
Silumin	<60	11.2

ASTM D 4340 – Cast Aluminium Alloys in Engine Coolants

Metal	Limit (mg/sample)	Measured (mg/sample)
Silumin	<1	0.3

SPECIFICATIONS MET

- Porsche/VW/Audi/Seat/Skoda TL 774 F
- Mercedes MB 325.3
- Ford ESE M97B49-A
- Renault 41-01-00
- Chrysler MS 9176
- VOLVO, OPEL GM QL 130100
- John Deere H 24 B1 and C1