



# TURCO 6783 SERIES

## IN-PLACE TURBINE ENGINE COMPRESSOR CLEANING

### 1. DESCRIPTION:

The **TURCO® 6783 SERIES** are water based cleaners, which effectively remove oil, salt and solid deposits from compressor blades, guide vanes and rotors of in-service turbine engines. Periodic cleaning of these components is necessary to avoid power loss, abnormal temperature increases and increased fuel consumption.

### 2. DESCRIPTION AND USE CONCENTRATION:

**TURCO® 6783-3** – Super concentrated liquid. Meets all the requirements of MIL-C-85704B Type II, except composition. **TURCO® 6783-3** is used at 10% by volume in distilled, demineralised or good quality drinking water.

**TURCO® 6783-50** – Concentrated liquid meeting all the requirements of MIL-C-85704B Type II. **TURCO® 6783-50** is used at 20% by volume in distilled, demineralised or good quality drinking water.

**TURCO® 6783-10** – Ready to use liquid meeting all the requirements of MIL-C-85704B Type IIA. It is used when distilled, demineralised or good quality drinking water is not available.

**NOTE:** For cold weather (below 0°C) add 20% by volume isopropanol, ethanol or glycol.

### 3. FEATURES:

1. Free of phenols and petroleum distillates.
2. Low chloride, sulphur, phosphorous and potassium.
3. Less than .05% ash.
4. Readily miscible with water.
5. Non-flammable.
6. Biodegradable.
7. Meets MIL-C-85704B Type II. (**TURCO® 6783-50, TURCO® 6783-10**)

**4. EQUIPMENT:**

**Procedure 'A':** Pressure pot with control valve, hose and spray nozzle or a Drum Master Model #220 for direct proportioning from container.

**Procedure 'B':** Special cleaning rig consisting of pressure tank, pump, valves and supply hose as specified by Turbine Engine Manufacturer.

**5. CLEANING PROCEDURE:**

**Procedure 'A':** Rotating Engine With Starter ('Crank Wash')

1. Prepare engine in accordance with applicable maintenance manual.
2. Fill spray tank with **TURCO® 6783-3** or **TURCO® 6783-50** at recommended concentrations in distilled, demineralised or good quality drinking water. **TURCO® 6783-10** is used as received.
3. Inject selected **TURCO® 6783** solution into compressor air intake while rotating engine with starter for approx. 60 seconds. Observe starter motor limitations.
4. Permit cleaning solution to dwell for approx. 10 – 15 minutes.
5. Repeat 3.
6. Repeat 4.
7. Rinse with cold distilled, demineralised or good quality drinking water with starter motor running for approx. 60 seconds.
8. After 5 minutes, repeat Step 7 as necessary to flush out all residual cleaning solution and loosened soils.
9. After starter has cooled, run engine and test performance.

**Procedure 'B':**

1. Prepare engine in accordance with applicable maintenance manual.
2. Fill spray tank with **TURCO® 6783-3** or **TURCO® 6783-50** at recommended concentrations in distilled, demineralised or good quality drinking water. **TURCO® 6783-10** is used as received.
3. Make sure supply hose valve is closed, then pressurise tank to 100 psi.
4. Connect supply hose to anti-icing fitting or as directed by engine manufacturer.
5. Start engine as directed in engine manual and run at RPM prescribed by manufacturer.
6. When engine has stabilised, turn on cleaning rig pressure pump and inject **TURCO® 6783** cleaning solution selected at 45 PSI into engine.
7. Continue feeding cleaning solution until it has passed through the running engine, taking approx. 15 minutes, turn off pump switch and shut off the supply valve.
8. Clear all fluids from the engine increasing RPM to cruising for approx. 15 minutes.
9. Check engine operation and temperature. If performance is insufficient further washing may be necessary.

**NOTE:** The above procedures are typical, however *the process recommended* by the engine manufacturer should be followed.

**6. DISPOSAL INFORMATION:**

Dispose of spent solution per local, state and regional regulations. Refer to your Henkel Material Safety Data Sheet for additional disposal information.

**WARNING! Causes eye irritation. May cause skin irritation.**

**TURCO® 6783-3, TURCO 6783-10 and TURCO® 6783-50** contain diethylene glycol monobutyl ether. Avoid contact with eyes, skin and clothing. Do not take internally. Use with adequate (equivalent to outdoor) ventilation.

Store in closed containers away from excessive heat or direct sunlight.

Before using these products, refer to container label and Henkel Material Safety Data Sheet for additional precautionary, handling and first aid information.

**DISCLAIMER**

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