

## Technical Information Bulletin

---

### TURCO SCALE GON # 7

#### MILDLY ACIDIC JET ENGINE CLEANING COMPOUND

#### Application

TURCO Scale Gon #7 is used as a single step or in combination with the proven Turco Jet Engine Cleaning processes to remove heat scale and contaminants from hot section jet engine parts, to facilitate penetrant inspection and reconditioning of parts.

This product is specifically suited to treat CrNi and Ni alloys like Nimonics, also ferritic chromium steels.

#### Characteristics

TURCO Scale Gon #7 is a yellow coloured liquid containing organic sequestrants.

#### Use information

TURCO Scale Gon #7 is used at temperatures up to 85°C, preferably between 75 and 85°C, concentration 20-30% (v/v).

Immersion time 30-60 minutes per cycle.

Rinsing preferably with air/water gun or using ultrasonic energy in a rinse tank.

Before using TURCO Scale Gon #7, parts should be free from grease or other organic contaminants.

Best results will be obtained using the following process:

1. Precleaning and removal of loose scale:  
Turco 4008-3 or 4 used as received at 115-125°C for 30 minutes.  
Turco 4781-7, 200-300 g/l or Turco 4181-L ,50-70% at 95°C for 30 minutes.
2. Rinse.
3. Acid descaling TURCO Scale Gon #7, 200-300 ml/litre at 75°C for 30-60 minutes depending on scale composition and condition.
4. Rinse.
5. Scale conditioner TURCO 4338-L, 40 % at 95°C for 30 minutes.
6. Rinse.
7. Scale removal in TURCO 4409 concentration 50% (v/v) or TURCO Scale Gon #7 20-30% by volume at 85°C.
8. Rinse.

If necessary steps 3 and 5 should be repeated until parts are clean.

For the coated parts (aluminized or plasma coated) run a trial cycle with a test piece. Aluminized parts are stripped of their coating in the alkaline stages.

Tank should be made from 316 stainless steel with inconel heating elements.

## Safety

TURCO Scale Gon #7 is only mildly acidic and is non-flammable.

It will not produce toxic fumes.

Protective clothing and gloves are recommended and contact with skin or eyes should be avoided.

In case of accidental contamination, areas should be thoroughly rinsed with water.

### **NOTICE:**

*The above information and recommendations concerning this product are based upon our laboratory tests and field use experience with this or similar products. However, since conditions of actual use are beyond our control, any recommendations or suggestions are made without warranty, express or implied. Manufacturer's and seller's sole obligation shall be to replace that portion of the product shown to be defective. Neither shall be liable for any loss, damage, or injury, direct or consequential, arising out of the use of this product.*

2005