

LABORATORY TEST PROCEDURE FOR TURCO 4181 (ALKALINE RUST REMOVER) EU

1. Obtain a sample from tank and allow cooling to room temperature.
2. Take a 5.0 ml sample of bath.
3. Dilute to 50 ml with distilled water.
4. Titrate to pH 11.4 using 1.0 N H₂SO₄ and note as ml (A)
5. Calculations:
 - a) In oz/gal: ml 1.0 N H₂SO₄ x 1.78 = oz/gl Turco 4181
 - b) In g/l: ml x 12.90 = g/l Turco 4181

As a result of introduction of CO₂ in the solution or addition of hard water, the solution may be contaminated with carbonates.

To determine the amount of carbonates, continue the titration of the sample to pH 8, note the ml used as (B), further continue to pH 4 and note as (C).

During the titration between pH 8 and pH 4 the formation of gas in the solution will indicate carbonates. If the volumes of (B) and (C) are very close or identical, the contamination is mostly carbonates. Higher titration of (B) indicates other contaminants.

To calculate the amount of carbonates, use the following calculation:

MI 1.0 N H₂SO₄ as (C), the number used between pH 8 and pH 4 x 21,0 = g/l Na₂CO₃.