

## TECHNICAL DATA SHEET

# DUBL-CHEK RED OXIDE No. 8

## Visible Magnetic Particle

Code 1552

### DESCRIPTION

DUBL-CHEK Red Oxide No. 8 is red particles premixed with powdered Wetting Agent for use in water media. It can be used with either visible or ultraviolet light. Higher particle concentration provides heavier indication buildup for easy detection. It is designed to be used with visible light for finding discontinuities in finished products.

### FEATURES & BENEFITS

- Particles are easily agitated, fast acting and produce defined indication
- Can be mixed with water
- Particles meet specification requirements
- Water based suspension is non-flammable

### PHYSICAL PROPERTIES

Particle Colour: Red  
 Specific Gravity: 0.6 g/ml  
 Particle Size: 5 – 30 µm (average 10µm)  
 Sensitivity: 6 lines on a AISI 01 Ketos Ring  
 Temperature limit: 0°C to 49°C

### ORDERING INFORMATION

Product Code	Packaging
1552/2LBS	1kg
1552/30LBS	13.6kg (3.5 gallons)



### BATCH NUMBERS

Batch numbers can be found on the bottom of aerosol cans or labels of bulk containers. Certificate of Conformance documents are provided with the product or can be download from [www.callington.com](http://www.callington.com)

### DIRECTIONS

**Note:** These instructions describe the basic process, but they may need to be amended by the user to comply with applicable specifications and/or inspection criteria provided by the contracting agency.

**Preparation:** Red Oxide No. 8 should be used at a concentration of 11 grams/litre of water. For best results, add a small amount of water to the powder and form a slurry prior to addition to the bath.

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**Settlement Test:** The settlement test, using a pear-shaped centrifuge tube, is essential to check the particle concentration and contamination to the suspension. This SHALL be performed on the initial batch, an adjustment made to the concentration, or at each shift change. The Settlement Test methods and particle concentrations can be found in relevant standards. The recommended volume is between 1.2 and 2.4 ml and will vary from one specification to another. The concentration may be adjusted by adding more water, or Red Oxide No. 8 as requires.

1. Clean the test surface and allow it to dry.
2. Apply DUBL-CHEK CP-2 for background contrast, if required
3. Magnetise the area to be inspected.
4. Ensure continuous agitation of the suspension.
5. Apply the suspension to the test part at a distance of approximately 150mm from surface.
6. Allow the excess oil/water to run off the inspection area.
7. Inspect the surface under visible light.
8. Collections of Red Oxide No.8 particles will reveal discontinuities at the leakage fields.
9. Clean and repeat the process; changing the orientation of the magnetising direction.

### STORAGE/SHELF LIFE

Keep away from moisture and sunlight. Keep the container closed when not in use. Shelf life: 36 months (3 years) from date of manufacture. Refer to NDT Shelf Life and Storage Recommendations for further information

### HEALTH & SAFETY

Use with adequate ventilation and away from spark, fire or open flames. Avoid prolonged or repeated contact with skin. Do not breathe gas, fumes, vapour or spray. Consult the MSDS for more Safety and Health information.

Get medical attention if irritation develops and persists. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves

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