

**TECHNICAL DATA SHEET**

# DUBL-CHEK RED POWDER No. 7

## RED DUAL MAGNETIC DUSTING POWDER

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**Description:** DUBL-CHEK Red Powder No. 7 is a highly refined green magnetic powder used for dry method magnetic particle inspection. It is designed to be used in visible and ultraviolet light to reveal discontinuities. The particles respond to magnetic leakage fields created by discontinuities in ferromagnetic material. Particles rapidly collect at leakage fields producing indications.

**Properties**

Particle Colour:	Red / Fluorescent Orange
Specific Gravity:	2.5 – 3.0 g/ml
Particle Size:	15 – 160 µm (average 75µm)
Sensitivity:	8 lines on a AISI Ketos tool steel ring
Temperature Limits:	120°C

**Packaging**

4.5kg	Product Code: 1553/10LBS
22.5kg	Product Code: 1553/50LBS

**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.

**Specifications**

Particles meet or exceed industry specifications including;  
ASMT E-1444, AMS 3040, MIL-STD-271, NAVSEA 250-1500-1, NTR-1E

**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 downloaded from [www.callington.com](http://www.callington.com)

**Special Features**

Particles are easily agitated, fast acting and produce defined indications  
Particles meet specification requirements  
Can be used with both stationary and portable magnetic test equipment  
Can be used at elevated temperatures  
The colour gives a clear contrast to backgrounds.  
Used with both visible and fluorescent light

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### Instructions

**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.

1. Clean the test surface and allow it to dry.
2. Apply **Red Powder No. 7** to the part with a powder spray bulb or powder blower.
3. Magnetise the area to be inspected.
4. As the current is being applied, dust the powder over the part. If excessive powder is visible, gently blow the extra powder off.
5. Inspect the surface under visible or fluorescent light.
6. Collections of particles will reveal discontinuities at the leakage fields.
7. Clean and repeat the process; changing the orientation of the magnetising direction.

### Health & Safety

Consult the MSDS for 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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