



**Transport**  
Roads & Maritime  
Services

# Test method T732

## Metallic content of scrap rubber

NOVEMBER 2012



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## Revision Summary

Ed/Rev Number	Clause Number	Description of Revision	Authorisation	Date
		Reformatted and Revision Summary Added	D.Dash	Jan 2000
Ed 2/ Rev 0	All	Reformatted RMS template	J. Friedrich	November 2012

Note that Roads and Maritime Services is hereafter referred to as 'RMS'.

The most recent revision to Test method T732 (other than minor editorial changes) are indicated by a vertical line in the margin as shown here.

# Test method T732

## Metallic content of scrap rubber

### 1. Scope

This method sets out the procedure for determining the ferromagnetic iron content of scrap rubber.

### 2. Apparatus

- (a) Magnet (bar or horse-shoe) capable of lifting an empty 1 L steel paint-type can.
- (b) Sheet of A3 paper.
- (c) Sheet of writing paper.
- (d) Balance capable of weighing accurately to 0.2 mg.

### 3. Preparation of Sample

This is described in method T730.

Any gross particles such as steel tyre wire observed during the quartering and riffing process should be reported.

### 4. Procedure

- (a) Weigh the sample to 0.1 g ( $M_1$ ).
- (b) Spread roughly over the A3 paper on a clean non magnetic surface.
- (c) Weigh the piece of writing paper to 0.2 mg ( $M_2$ ). Then wrap end of magnet to be used in the paper.
- (d) "Dredge" the magnet back and forth through the scrap rubber in a ploughing pattern and again to make a lattice. Continue until the scraps are only one or two high on the A3 paper.
- (e) Carefully unwrap the magnet from the paper in such a way that all the magnetic particles are retained on the paper.
- (f) Weigh the paper with the magnetic particles ( $M_3$ ).

### 5. Calculations and Reporting

Calculate the ferromagnetic content as follows:

$$\text{Metallic Iron Content} = \frac{M_3 - M_2}{M_1} \times 100\%$$

Report to two significant figures; if under 0.10% record the result as TRACE, if under 0.01% record as FREE. Report any gross particles which may have been in the original sample.