



# Product Specification

## Product Name: IRON FILINGS Fine TG

Alternate Name(s)

### Description

Grey-black filings; odourless; angular shape; Non combustible and non flammable material.

### Properties

Chemical Formula: Fe

Molecular Weight: 55.85

Product Code: IT014

CAS No. 7439-89-6

### General Information:

Insoluble in water and organic solvents. Incompatible with strong oxidisers, water, acids, halogenated compounds, aldehydes and hydrogen peroxide.

### Hazard and Safety Data

UN Group: None Allocated

Class: None Allocated

UN Number: None Allocated

Hazchem code: None Allocated

CS MSDS Code: 1CH38

Poison schedule: Not Scheduled

Emergency

Procedure Guide No.: N/A

### Quality Specification

Assay:

### Specific Properties and Impurities [Typical levels]:

Melting point	1300-1500°C (depending on
Size	0.42 - 0.82 mm
Metablast type	Grit
Typical average hardness	≤ 57 HRC
Vickers pyramid	≥ 650 HV
Mean hardness deviation	± 3 HRC or ± 40 HV
Microstructure: Chilled iron microstructure a white iron eutectic structure of cementite and martensite	
80% retained on a Bs sieve	No. 52
70% retained on a Bs sieve	No. 36
Density measured by alcohol displacement	≥ 7.0 g/cm <sup>3</sup>

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