



Designation: E702 – 85 (Reapproved 2005)

Standard Specification for Municipal Ferrous Scrap¹

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1. Scope

1.1 This specification covers the chemical and physical requirements of municipal ferrous scrap that are intended for use by such industries listed as follows:

- 1.1.1 Copper industry (precipitation process),
- 1.1.2 Iron and steel foundries,
- 1.1.3 Iron and steel production,
- 1.1.4 Detinning industry, and
- 1.1.5 Ferroalloy industry.

1.2 Questions concerning material rejection, downgrading, and retesting based on failure to meet the requirements of this specification shall be dealt with through contractual arrangements between the purchaser and the supplier.

2. Referenced Documents

- 2.1 *ASTM Standards*:²
[E701 Test Methods for Municipal Ferrous Scrap](#)

3. Terminology

3.1 Definitions:

- 3.1.1 *metallic yield*—the weight percent of the municipal ferrous scrap that is generally recoverable as metal or alloy.
- 3.1.2 *municipal ferrous scrap*—ferrous waste that is collected from industrial, commercial, or household sources and

destined for disposal facilities. Typically, municipal ferrous scrap consists of a metal or alloy fraction, a combustible fraction, and an inorganic noncombustible fraction that includes metal oxides.

3.1.3 *total combustibles*—materials that include paints, lacquers, coatings, plastics, etc., associated with the original ferrous product, as well as combustible materials (paper, plastic, textiles, etc.) which become associated with the ferrous product after it is manufactured.

4. Chemical Composition

4.1 Municipal ferrous scrap shall conform to the requirements as to chemical composition for the respective end uses prescribed in [Table 1](#).

4.2 The chemical requirements listed in [Table 1](#) are based on melt analyses except where noted.

5. Physical Properties

5.1 Municipal ferrous scrap shall conform to the physical properties for the respective end uses prescribed in [Table 2](#).

6. Test Methods

6.1 Determine the physical and chemical requirements of municipal ferrous scrap in accordance with Test Methods [E701](#).

7. Keywords

7.1 chemical requirements; copper industry; detinning industry; ferroalloy production; iron and steel foundries; iron and steel production; municipal ferrous scrap; physical requirements

¹ This specification is under the jurisdiction of ASTM Committee [D34](#) on Waste Management and is the direct responsibility of Subcommittee [D34.03](#) on Treatment, Recovery and Reuse.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.