

Measurement of: Melting of constituent elements for making an alloy up to a quantity of 5-20 g

Equipment: Arc Melting Unit (Single Arc), MAM-1, Edmund Bühler GmbH

Property Measured: Arc melting of metals and alloys

Photograph (small size)



Basic Principle: Electrical arc generally used to melt the constituent elements for making an alloy. The arc melting furnace consists of a hearth (made up of copper) with cups of one electrical polarity and the opposite polarity consists with electrodes. Constituent elements to be melted are kept in a cup of the hearth and the electrodes are used to strike the arc for melting the material.

Capabilities: Arc melting of metals and alloys granules/ingot/sponge etc.

Sample Requirement: Pellet or metal pieces