

SYNOPSIS

Doc No : CHD 1 (15639)F TABULAR ALUMINA —SPECIFICATION

This standard covers the requirements and method of test for Tabular alumina.

Tabular Alumina is high density sintered alpha alumina. It has flat, table shaped, large crystals. The feedstock of Tabular Alumina is calcined alumina which is ground to fine powder and palletized to balls with a diameter of about 25 mm. These balls are then kept in shaft kilns and sintered at a temperature of about 1750°C. These are then crushed, milled and sieved to standard sizes.

Tabular Alumina has high heat capacity, thermal conductivity, exceptional strength and volume strength at high temperature. Because of the above properties, one of the main application of tabular alumina is in refractories (the material which is used in lining industrial furnaces). It has found its application in shaped and unshaped products such as bricks, or specially shaped products like porous plugs for steel ladles, sliding gates and shaped products for glass industry.