



Indian Standards IS 650 : 1991 Standard Sand for Testing Cement

Standard Sand used as **Testing Material** and play very important role in the **cement industry**. Also it is used as a **Standard Material** to study the properties of other building materials like lime and **pozzolanas**, various admixtures to cement and also as a standard material for determining the **abrasive resistance** of different substances, such as building stones.

Till the year 1955, the country's requirements for standard sand were met by importing **Leighton-Buzzard sand** from the United Kingdom. While formulating the standard for **Portland Cement** in early 1955, it was also felt the necessity of establishing an indigenous standard sand as early as possible with **sourced in India**.

As a result of extensive survey and research carried out by many organizations, it was found that the **white variety of sand** available at **Ennore, Madras State**, was very **pure in nature** and suitable for use as a Standard Sand.

This standard specifies the requirements for Standard Sand used in Testing of Cement, ensuring **Consistency** and **Quality** in the Cement Industry.

Standard Sand with specific **particle size distributions** as per Cl. 4.2 of Standards, may also obtains from **Mudaliarkuppam, Pallambakkam** and **Vada Agaram** all sourced in **Tamil Nadu**.

Supplies of the standard sand may be obtained from **Tamil Nadu Minerals Ltd**, 31, Kamarajar Salai, 'TWAD House', Chepauk, Chennai 600005.

The Standard Sand shall be of **quartz, light grey or whitish variety, free from silt**, and have **specific particle size distributions** as per Standard. It also **free from organic impurities** and **loss of mass** shall be as per Standard.

The Standard Sand is available in **50 kg or 25 kg, jute canvas bags** and also in **metal containers**. Each supply contain equal quantities of each of the fractions.