

IS 7129 : 2021

Potassium Carbonate, Anhydrous — Specification

Potassium carbonate is used as a dehydrating agent and for making other potassium salts, such as chlorates and chromates. It also finds its use in ceramics, explosives, fertilizers, mineral water, tanning, electroplating, shampoo preparations, process engraving and lithography, soft soaps, textile dyeing, bleaching and finishing oil, and photography.

The material, for its intended application, shall be in the form of white, deliquescent crystalline powders or granules. Undesirable impurities shall not be present in quantities more than certain limits.

IS 7129: 2021 prescribes the requirements and methods of sampling and test for anhydrous potassium carbonate. The standard specifies two grades of the material: pure and technical. The pure grade has more stringent limits for undesirable impurities as compared to technical grade and hence suitable for more sensitive applications such as mineral water, shampoo preparation etc. The technical grade can be used for industrial applications.

The standard was originally published in 1973. In the second revision of the standard, a limit for maximum allowed Sodium content has been prescribed and latest instrumental method ICP-OES has been incorporated for determination of Iron, Lead, Calcium, Magnesium, and Sodium.

The standard also outlines packaging and marking requirements, and sampling methods to ensure uniformity of sample for testing. The annexes of the standard describe the test methods to be used for determining the requirements prescribed for the product. Compliance to this standard gives the guarantee that the product is of optimum quality and the product may be covered under a BIS licence and given a BIS-certification mark.