

Brief summary on IS 1781: 2022 Urea, Technical — Specification

(Second Revision)

Urea, is also called carbamide. The chemical formula of this compound is H_2NCONH_2 . Urea has essential uses as a supplement to fertilizer and feed, as well as starting material for plastics and medicines manufacturing.

IS 1781 was originally published in 1961 and subsequently revised in 1975. In 1961 version, the standard covered the industrial and the fertilizer grades. Later, it was decided to prepare a separate standard for fertilizer grade urea, published as IS 5406. In this second revision an alternate method for determination of iron using 1,10-phenanthroline and clause on the procedure to collect samples from continuous production facilities (Annex-J) has been incorporated.

This standard prescribes the requirements, the methods of sampling and testing for urea, technical. It does not cover the material used as fertilizer.

For the determination of particle size, IS Sieves [see IS 460 (Part 1)] have been prescribed, where IS Sieves are not available, equivalent test sieves as judged from aperture size may be used.