

Technology of Magnesium Hexafluorosilicate Production

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Abstract—Systematic study of parameters of the technological process for producing crystalline magnesium hexafluorosilicate from hexafluorosilic acid and caustic magnesite: reagents concentrations and ratio, temperature of the synthesis and evaporation, order of pouring the reagents (caustic magnesite suspension and hexafluorosilic acid), intensity of the solution stirring at its crystallization. Optimal values providing maximal yield of the targeted product are elucidated.

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