

EFFECT OF CITRIC ACID SALTS ON THE PROCESS OF GYPSUM CURING

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Testing of trisubstituted citrates with one-charge cations – lithium, sodium, potassium, ammonium and triethylammonium was made. It is discovered that from trisubstituted citrates most activity in regard to the gypsum curing process is shown by the lithium citrate, and activity of citrates with other one-charge cations falls in a row: sodium citrate, potassium citrate, ammonium citrate, triethylammonium citrate. The most effective area of salt concentrations is found and for practical aims recommended as effective cure

of gypsum retarders sodium and potassium citrate in a concentrations about 0,05 M. It is shown, that a conduct over of citrates in the recommended concentrations is not brought to the decline of strength characteristics of the gipseous founding.

Keywords: binders, gypsum, citric acid, citrates.

References

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