

METALS ON POLYMERIC SUPPORTS. PREPARATION AND USE IN ORGANIC SYNTHESIS

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Alkali metals promote a variety of organic reactions of great value for organic synthesis and industrial processes. We have found that 'high-surface metals' can be conveniently prepared *via* deposition of alkali or alkaline metals on polymeric supports from their solutions in liquid ammonia. These reagents can be conveniently stored and used in a form of stable suspensions in inert solvents. Addition of a suspension of supported alkali metal to a solution of zinc or titanium salts in THF gave highly active zinc or titanium on polymeric support. We have used these 'high-surface metals' for the acyloin, Dieckmann, Reformatski, Barbier and McMurry reactions, and for the preparation of organozinc and organolithium compounds.

e.g.

