

ABSTRACT**POLYMERIZATION INITIATING SYSTEM AND METHOD TO PRODUCE
HIGHLY REACTIVE OLEFIN FUNCTIONAL POLYMERS**

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A method for producing highly reactive olefin polymers wherein at least 50 mol. % of the polymer chains have terminal double bonds, from an isobutylene or a mixed C₄ hydrocarbyl feedstock containing isobutylene. To achieve a viable process, water is added to the catalyst stream or the feedstock in the overall range of 0.05 mM to less than 5 mM per liter of feedstock.

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No Figure.