

**REDUCED OXIDATION STATE TRANSITION METAL COMPOUNDS
USEFUL AS OLEFIN POLYMERIZATION CATALYSTS**

ABSTRACT

5 This invention is directed to reduced oxidation state Group 4-6
metal compounds, preferably the first row metals in those groups, suitable for
activation as polymerization catalysts and characterized by comprising a
substituted hydrotris(pyrazolyl)borate ancillary ligand and a plurality of single or
10 multidentate uninegative ligands, excluding cyclopentadienyl ligands. The
invention includes a polymerization process characterized by comprising
contacting one or more monomers polymerizable by coordination or insertion
polymerization under suitable polymerization conditions with these catalyst
compositions.



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