Characteristics and Strengthening Mechanism of Alloyed Steel Powder "KIP SIGMALOY 2010" for Ultra High Strength Sintered Materials*



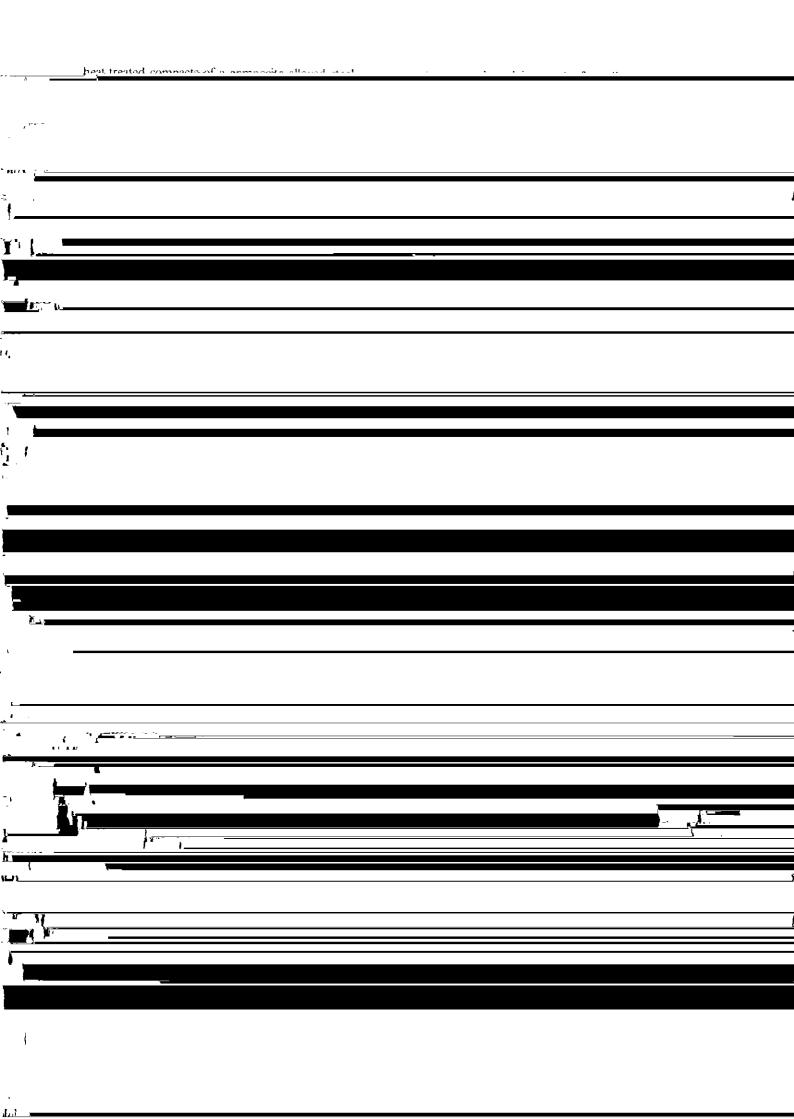


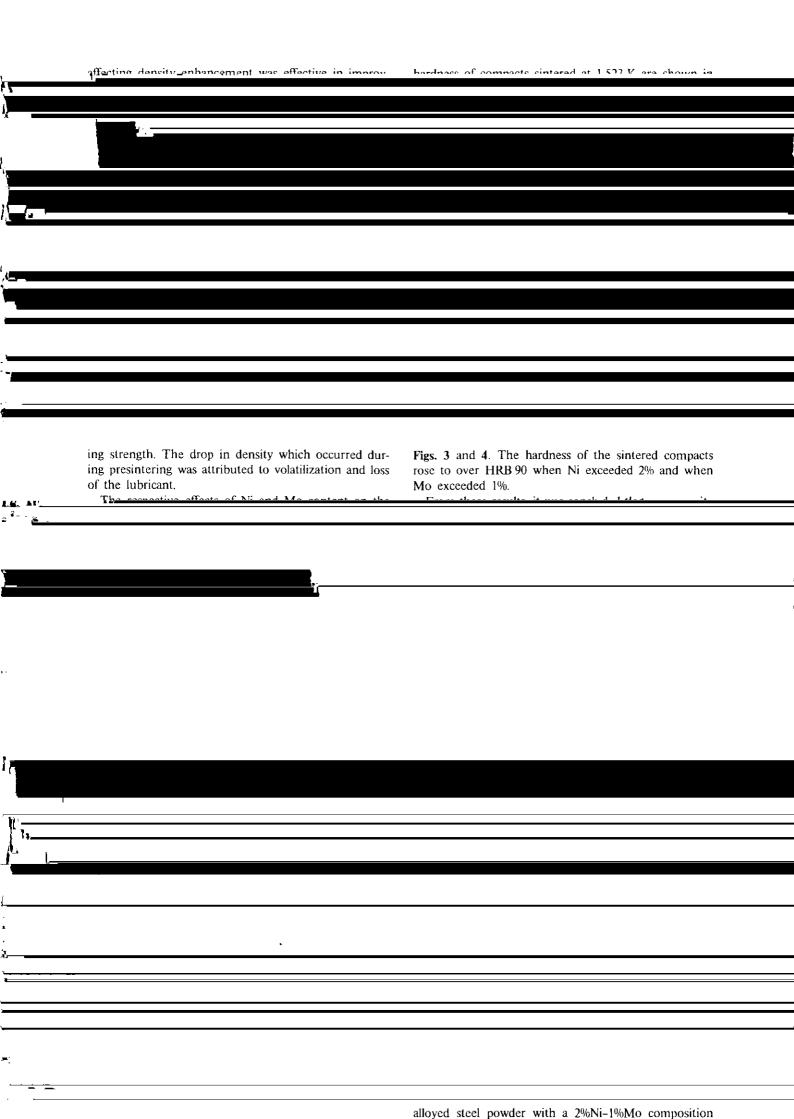


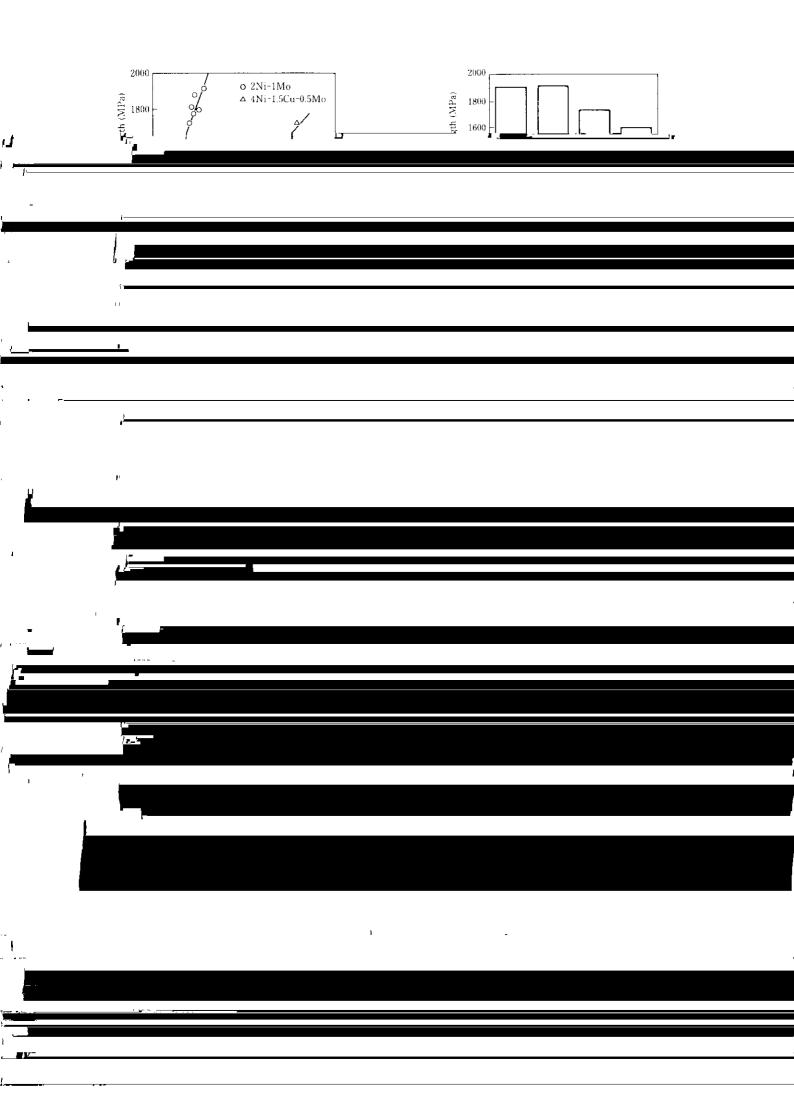
Synopsis:

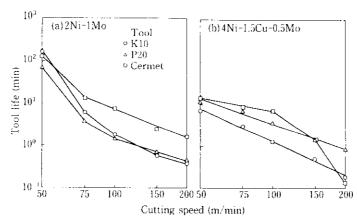
The chemical composition of Ni- and Mo-containing composite-type alloyed steel powder was optimized for the production of high strength sintered components via com-

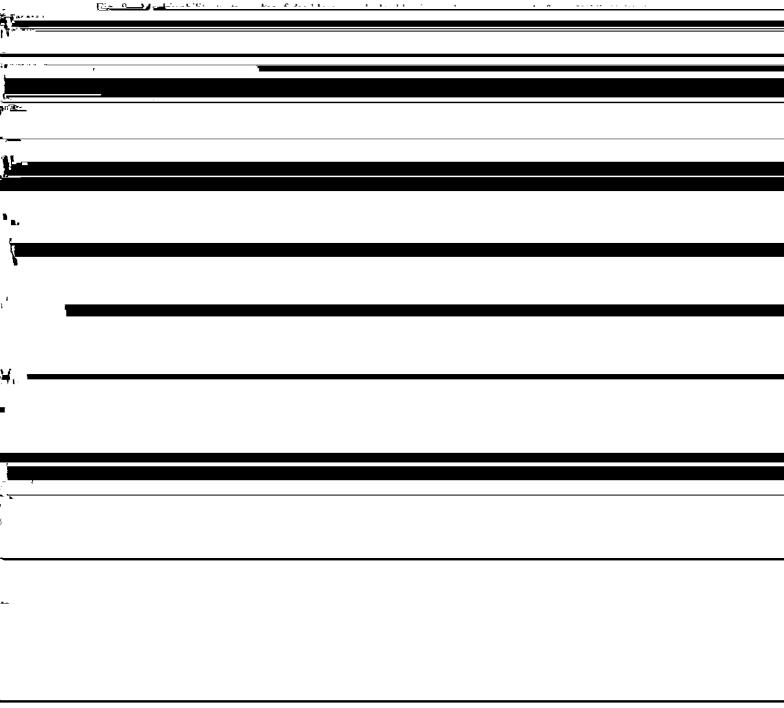




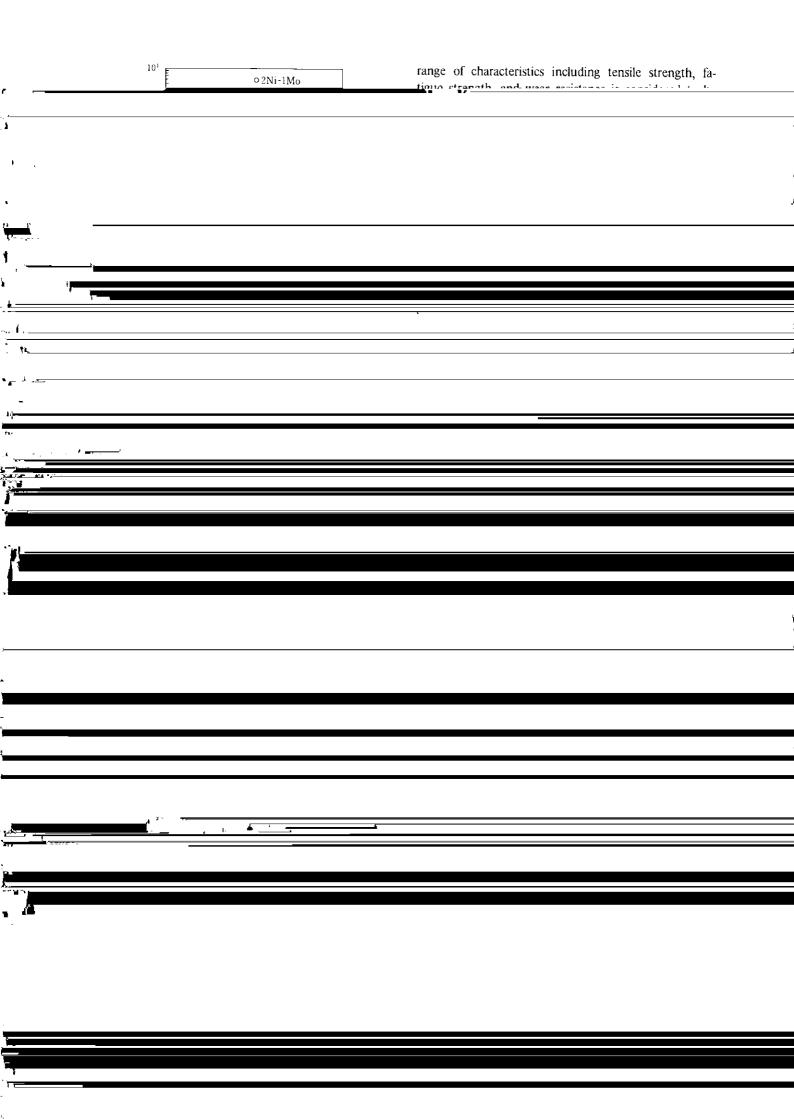








4%Ni-15%Cu-0.5%Mo(b) composite-type alloyed steel powders with 0.6% graphite



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	tigue strength of 460 MPa and an endurance limit of	developed material is expected to find wide application
	contact fatigue strength of 2 560 MPa by single- pressing, single-sintering, carburizing and temper-	in synchro hubs and other transmission parts. KIP SIG-MALOY 2010 will also make it possible to produce
	ing. The high strength features obtained by applying	mankanical norts which require higher levels of strength
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