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4 . % Cr  
Cr Alloyed Steel Powders for High Strength Sintered Parts without Heat-treatment  
after Sintering

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4 fl " . Cr fl ž ~ KIP  
30CRV(3Cr-0.3Mo-0.3V)

Cr-Alloyed Steel Powders for High-Strength Sintered Parts

without Heat-treatment after Sintering



要旨

焼結後の熱処理を省略しても高強度が得られる Cr 系合金鋼粉を開発した。KIP 30CRV (3Cr-0.3Mo-0.3V) 焼結体は、引張強さ 1150MPa、回転曲げ疲労強度 310 MPa が得られ、KIP シグマロイ

Table 1 Chemical compositions of powders used

Powder	Chemical composition (wt%)							Prealloying
	C	Cr	Fe	Si	Mn	P	S	
KIP 103V	0.004	0.148	0.97	0.34	0.25	—	—	Prealloying



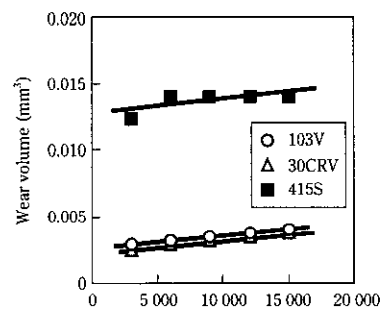
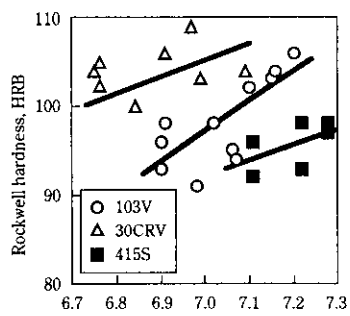


Fig. 9 Relationship between wear volume and wear distance for