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Cr Strengthening Mechanism of Cr Alloyed Steel Powder for High Strength Sintered Parts Shigeru Unami Satoshi Uenosono

			1Cr-0.3Mo-0.3V (mass)
KIP 103V		0.9 mass	
			1 000 MPa
	310 MPa		
Mn		V	

Synopsis :

A prealloyed 1Cr-0.3Mo-0.3V (mass) steel powder, KIP 103V, has been developed to obtain the high compressibility of powder and the high strength of sintered compacts without heat-treatment after sintering. The as-sintered steel without heat-treatment made from this new powder with 0.9 mass graphite addition gives as high strength as heat-treated sintered steel. Tensile strength is 1 000 MPa and d(1V) -w o

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Strengthening Mechanism of Cr Alloyed Steel Powder for High Strength Sintered Parts





要旨

圧縮性が高く,焼結ままの熱処理なしで高強度が得られる 1Cr-0.3Mo-0.3V (mass%) 組成のプレアロイ鋼粉「KIP 103V」を開発し

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	Table 1 Chemical compositions of powders used	7.25	
		1.64	
	(mass%)		I
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