

Nippon koshuha's high performance material supports advanced technology.

The advance of automization and electronic control in industrial / household use equipment are remarkable. The magnetic property and corrosion resistance are strongly requested from the solenoid valve and the solenoid used for them. Nippon Koshuha is offering GDM series and KTAS series as an electromagnetic material for high corrosion resistance.



motor core



Electromagnetic Clutch

■Corrosion resisting electromagnetic material GDM serie

Class	Grade	Equivalent alloy	Principal chemical composition	Characteristic	Example of usage
High Corrosion resistance	GDM1	---	13Cr-1Mo-Cu,Al,Ti	Good cold forgrability	Solenoid Various solenoid valves
	GDM3	---	13Cr-2Si-S	Good machinability High specific resistance	Solenoid Various solenoid valves
	GDM4	---	18Cr-2Si-1Mo	High corrosion resistance	Solenoid Solenoid valves for water and gas

■Corrosion resisting electromagnetic material KTAS series

The KTAS Series is super corrosion resisting magnetic material that impurities of ASTMXM27 and JIS447J1 are decreased to the limit.

Class	Grade	Equivalent alloy	Principal chemical composition	Characteristic	Example of usage
Super Corrosion resistance	KTAS261	SHOMAC R261	26Cr-1.3Mo-LL C,N	Excellent corrosion resistance that exceeds SUS316L and SUS329J1 Good soft magnetic	Solenoid valve for medical treatment such as dialyzers
	KTAS302	SHOMAC 302	30Cr-2Mo-LL C,N	Excellent corrosion resistance that exceeds KTAS261 Good soft magnetic	Artificial tooth, Valve for mechanical heart, Seawater seal

KTAS Series is our making and selling in 2000 according to the commercial supremacy transfer from Showa Denko.