Data Sheet

Westgate

K-500

(N05500) W.Nr. 2.4375

Chemical composition	Ni+Co	C	Mn	Fe	S	Si	Cu	Al	Ti
% Present (Max)	63.0	0.25	1.5	2.0	0.01	0.5	27.0-33.0	2.3-3.15	0.35-0.85

Alloy K-500 is a nickel-copper alloy which combines the excellent corrosion resistance of alloy 400 with the added advantages of greater strength and hardness. The increased properties are obtained by adding aluminum and titanium to the nickel-copper base, and by heating under controlled conditions so that sub microscopic particles of Ni3 (Ti, Al) are precipitated throughout the matrix. The thermal processing used to effect precipitation is commonly called age hardening or aging. Typical applications for alloy K-500 products are chains and cables, fasteners and springs for marine service; pump and valve components for chemical processing; doctor blades and scrapers for pulp processing in paper production; oil well drill collars and instruments, pump shafts and impellers, non-magnetic housings, safety lifts and valves for oil and gas production; and sensors and other electronic components.

Note: Values are in accordance with EN 10088 specifications. Actual mill certs available upon request.

sales@westgatestainless.com 01922 745664