



### UMCo-50 Plate, Sheet, Pipe, Bar

UMCo50 is a heat-resistant cobalt alloy that has excellent thermal shock resistance and wear resistance. UMCo50 also shows great strength against sulfur-and vanadium-attacks. Another feature is UMCo50 higher melting point compared to other cobalt base or nickel base heat-resistant alloys.

#### Chemical description of UMCo50

C <sub>s</sub>	Si <sub>s</sub>	Mn <sub>s</sub>	Cr	Fe	Co
0.08	0.75	0.65	28	20.5	50

#### UMCo50 Mechanical Properties

Details	Tensile strength kgf/mm <sup>2</sup>	Yield strength(0.2%)kgf/mm <sup>2</sup>	Elongation%
3mm Sheet (Flat rolled)	90~118	37~46	10~28
3mm Sheet : 1100 °C X 30'Annealed	80~90	30~37	10~20

As for the wear resistance of UMCo-50, hardly any deterioration was found after being used as a sintering bar for copper sulfide for 50 months. On the other hand, UMCo-50 cast iron parts used till then were heavily corroded, oxidized and worn even though operations were conducted at 900, making them usable for only three and a half months.

UMCo-50 Welding performance, Katalor production of UMCo-50 are completely according to the UMCo-50 standards to meet the UMCo-50 Welding performance.

Katalor have the control of professional engineers of UMCo-50. We have advanced precision machining equipment, according to the requirements of users machining. In order to achieve the most satisfied with the user requirements for UMCo-50.