Technical Data

High Performance Corson Alloy

NKC164



1 Introduction

High strength high conductivity copper alloy NK164

Good way	Bad way
Surface appearance	Surface appearance
Cross section	Cross section

Fig.1 Surface appearance

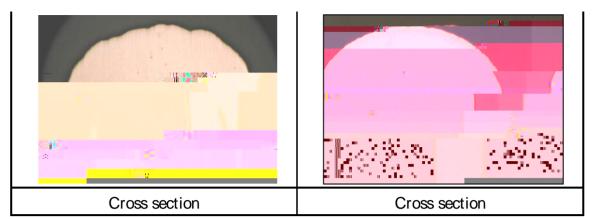


Fig.2 Surface appearances and cross sections of U- shaped bending test specimens. Temper H , Thickness = 0.25mm , R/ t=0 , Width =10mm

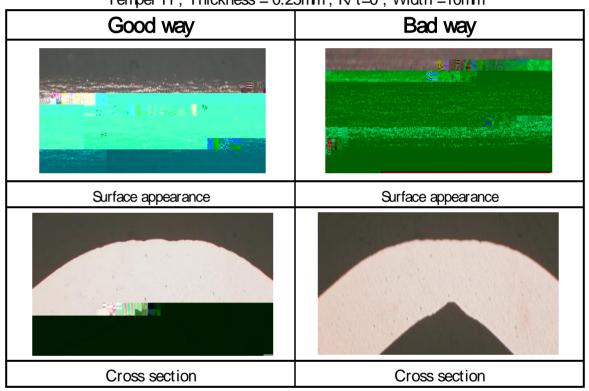


Fig.3 Surface appearances and cross sections of 90 W- shaped bending test specimens. Temper 1/2H, Thickness = 0.2mm, R/t=0, Width =10mm

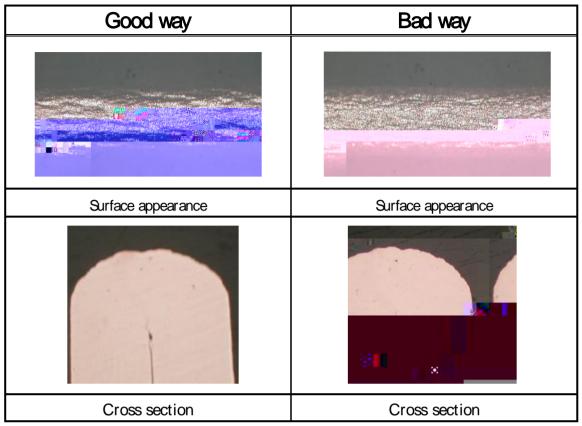


Fig.4 Surface appearances and cross sections of U- shaped bending test specimens. Temper 1/2H, Thickness = 0.2mm, R/t=0, Width =10mm

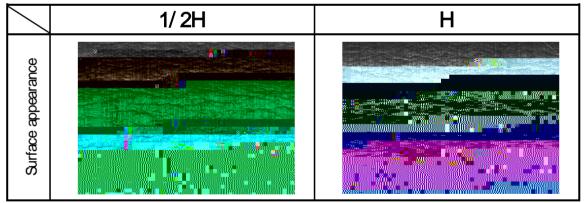


Fig.5 Surface appearances of 90 W- shaped bending test specimens (R/t=1.0).



7 Stress relaxation resistance

Stress relaxation resistance is highly important for maintaining the contact force for long period of time or at elevated temperatures. Fig.6 exhibits the stress relaxation resistance of NKC164. It is noted that NKC164 maintains over 80% of the initial applied stress after 1000h at 150 .

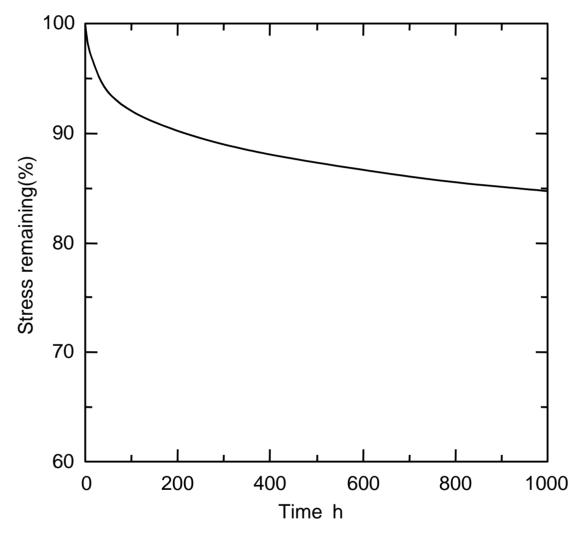


Fig.6 Stress relaxation of connector alloys at 150 .

8 Stress Strain curve

Figs.7 and 8 show the Stress-Strain curves for NKC164.

Fig.8 Stress-

Further Information

JX Metals Corporation Functional Materials

Ver.1.3