## Technical Data

High Performance Copper Alloy

**NKC388** 

UNS Alloy No. C70252



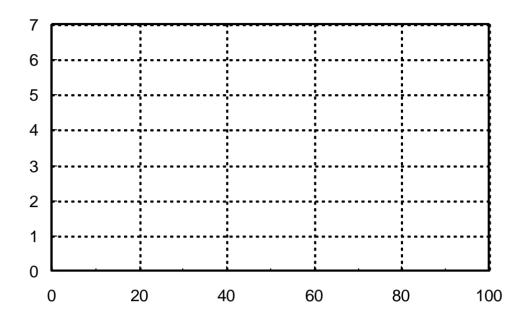


Fig.3 Bend formability variation (good way) of NKC388-SH in case changing width of specimen.

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Fig.4 Bend formability variation (bad way) of NKC388-SH in case changing width of specimen.

## 8. Fatigue Characteristic

Fatigue Characteristic is important when material is used as spring application such as connectors. Fig.3 shows results of fatigue tests. There are no dependence on the direction.

Alloy:NKC388-SH

Amplitude direction : both sides

Size of specimen: 0.1

direction of specimen: Rolling direction = good way

## 9. Stress Relaxation Resistance

Stress relaxation resistance is highly important for maintaining the contact force for long period of time. Fig.6 shows stress relaxation resistance of NKC388. It is noted that NKC388 maintains over 90% of the initial applied stress at 150 after 1000hr.

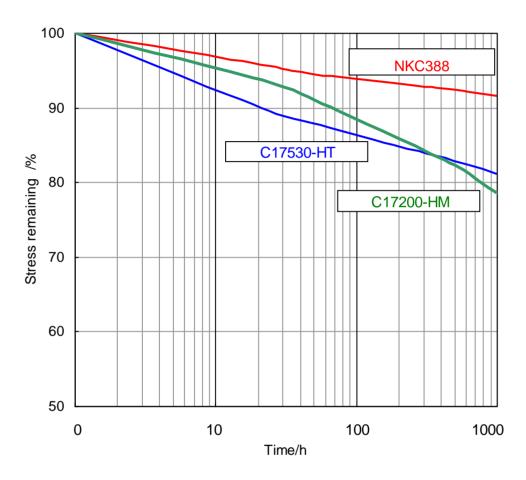


Fig.6 Stress Relaxation Resistance of NKC388 (Temperature: 150

Fig.11 Strain-Stress curve of NKC388 XSH (Rolling direction)

Fig.12 Strain-Stress curve of NKC388 XSH (Transverse direction)

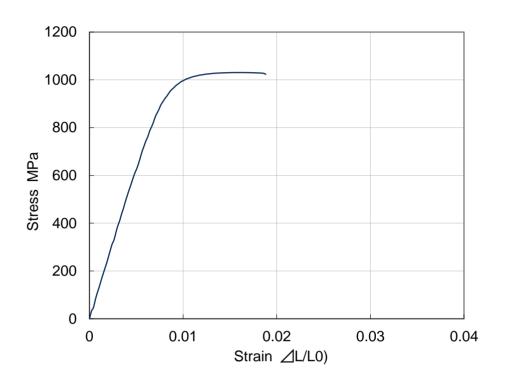


Fig.13 Strain-Stress curve of NKC388 USH (Rolling direction)

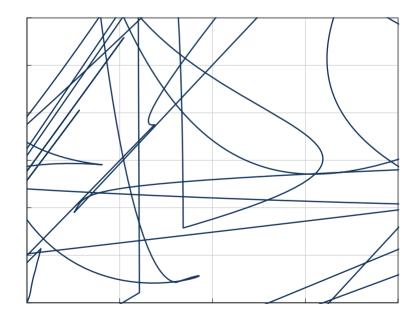


Fig.14 Strain-Stress curve of NKC388 USH (Transverse direction)