
Technical Data

High Conductivity and Heat Resistance
Copper Alloy

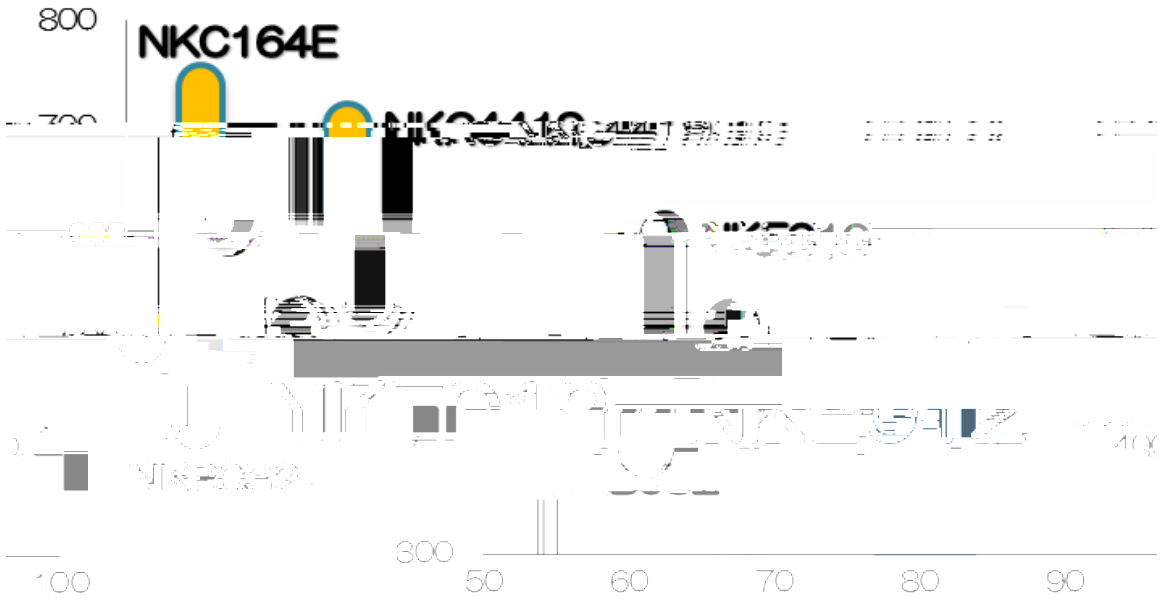
NKE012
(CDA No.C14415)



1. Introduction

High conductivity, heat resistance copper alloy NKE012 (CDA No. C14415) has a small amount of tin in chemical compositions. This combination of properties lends the alloy to be used in a wide variety of applications including automotive and electrical connectors.

T



5. Mechanical Properties

Table 3 Mechanical Properties of NKE012

	Temper	Tensile Strength MPa	0.2% Yield Strength MPa	Elongation %	Vickers Hardness Hv
NKE012	H	430 (375 475)	420 -	3 (Min. 1.0)	130 (95 160)
	EH	500 (410 600)	490 -	2 -	145 (105 175)

-

6. Bend Formability

Table 4 Minimum

9. Stress Strain Curve

Fig. 6 shows the Stress-Strain curves for NKE012.

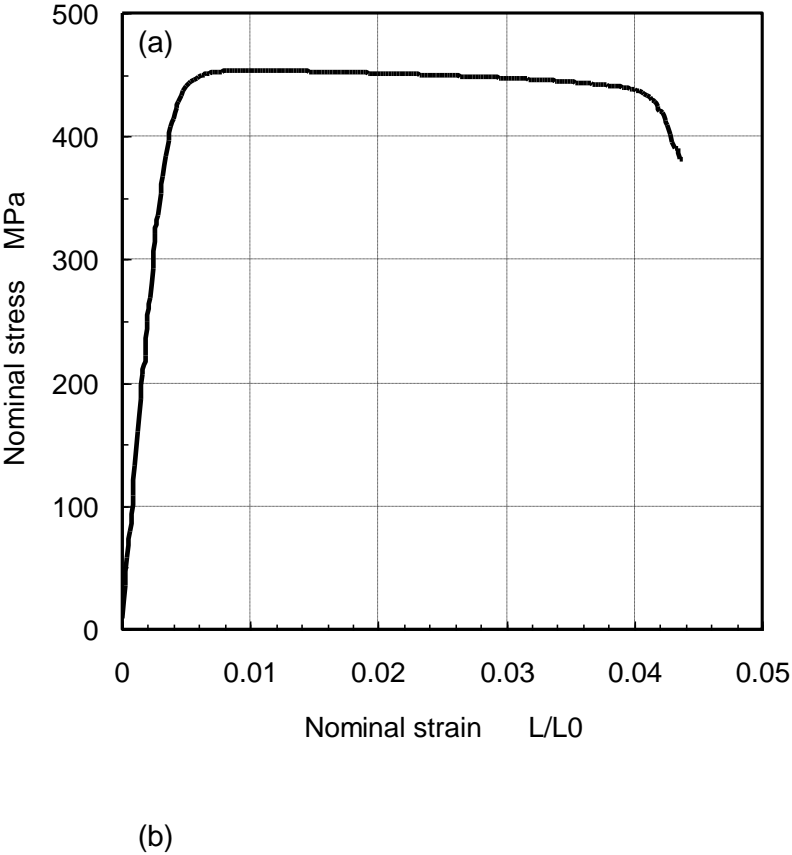


Fig. 6-1 Stress-Strain Curves for NKE012-H
(a) Longitudinal and (b) Transverse Directions.

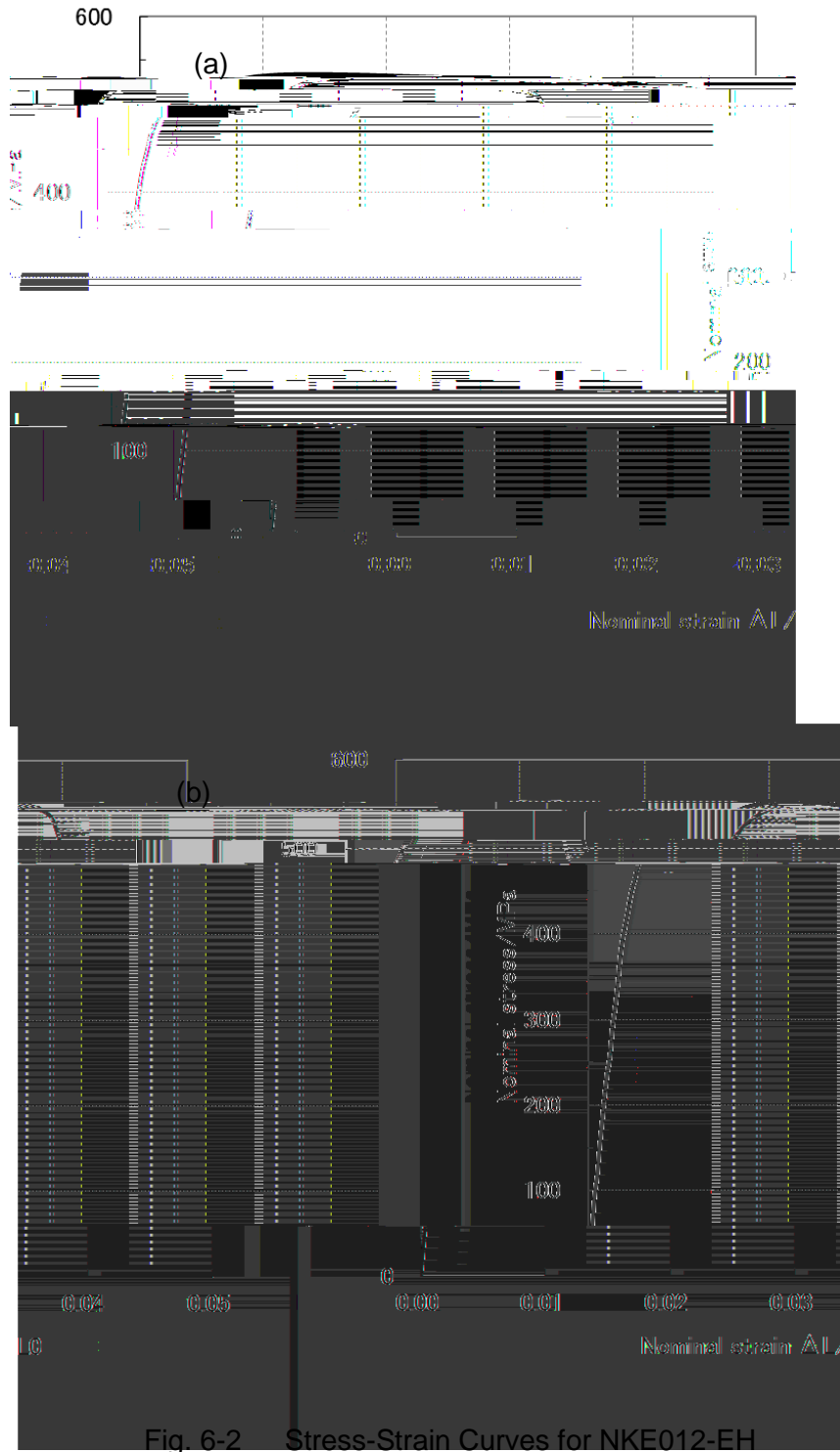


Fig. 6-2 Stress-Strain Curves for NKE012-EH
 (a) Longitudinal and (b) Transverse Directions.

Further Information

JX Nippon Mining & Metals Corporation
Electronic Materials Group
Functional Material Division
Rolled & Fabricated Products Dept.
1-2, Otemachi 1-chome, Chiyoda-ku, Tokyo 100-8164 JAPAN
Phone
Fax