Hi-Performance Alloy Series

Technical Data

Extremely High Strength 3% Titanium Copper

## Hyper Titanium Copper (C1990HP) Temper GSH



## 6. Thickness precision

Higher thickness precision than conventional materials is achieved by optimization of the manufacturing processes. Product thickness with high accuracy improves the stability of spring properties. Fig. 1 shows histogram of thickness distribution in the rolling direction. Fig.2 shows thickness distribution in the width direction.

Fig.1 Histogram of thickness distribution in the rolling direction (high thickness precision material compared to

\* Data obtained by X-ray measurements of thickness at the center of the width direction of the mother coil, taken every 0.01 seconds for approximately 1,000 meters.

\*The values shown are typical values and not intended as specifications.

32.0

<sup>\*</sup> Thickness distribution was measured in the width direction using a direct contact thickness gauge.

<sup>\*</sup>The values shown are typical values and not intended as specifications.

## 7.Stress-Strain Curve

Fig. 3 4 show stress-strain curves of C1990HP-GSH.



Fig.3 Stress- Strain curve of C1990HP-GSH (Longitudinal direction)



Fig.4 Stress-Strain curve of C1990HP-GSH (Transverse direction)

Further Information

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