

# Straitened wire

## ASADA CORPORATION

<http://www.asada-metal.com/>

Asada Corporation is a specialized trading company  
for wires and strips such as steels, wires, piano wires,  
hard drawn steel wires, stainless steel wires etc.

## (4) STRAIGHTENED WIRE

### Feature

1. There is no need to straighten the resultant bending after forming into springs or other products, thereby increasing operating efficiency to a great extent.
2. Straightness has been obtained by heat treatment, ensuring consistent properties.
3. Increased fatigue strength and less settling.

Table 1-7 Tensile Strength, Straightness, Tolerance, and Out-of-Round

| Wire<br>diameter<br>mm | 1/2 HT                    |                         | 3/4 HT                    |                         | 4/4 HT                    |                         | Surface<br>Symbol | Tolerance<br>mm | Our-of-<br>round<br>mm |
|------------------------|---------------------------|-------------------------|---------------------------|-------------------------|---------------------------|-------------------------|-------------------|-----------------|------------------------|
|                        | T.S.<br>N/mm <sup>2</sup> | Straight-<br>ness<br>mm | T.S.<br>N/mm <sup>2</sup> | Straight-<br>ness<br>mm | T.S.<br>N/mm <sup>2</sup> | Straight-<br>ness<br>mm |                   |                 |                        |
| 0.18<br>0.20           | 1620~<br>1910             | 1.5/100<br>max.         | 1810~<br>2110             | 2/100<br>max.           | —                         | —                       | UB                | ±0.008          | 0.008<br>max.          |
| 0.25                   | 1570~<br>1860             |                         | 1760~<br>2060             |                         |                           |                         |                   |                 |                        |
| 0.30<br>0.35           | 1520~<br>1720             | 3.5/200<br>max.         | 1720~<br>2010             | 5/200<br>max.           |                           |                         |                   |                 |                        |
| 0.40                   |                           |                         |                           |                         |                           |                         |                   |                 |                        |
| 0.45                   |                           |                         |                           |                         |                           |                         |                   |                 |                        |
| 0.50<br>0.55<br>0.60   | 1470~<br>1670             | 2.5/200<br>max.         | 1670~<br>1960             | 4/200<br>max.           | 1960~<br>2210             | 4/200<br>max.           |                   | ±0.010          | 0.010<br>max.          |
| 0.65                   |                           |                         |                           |                         |                           |                         |                   |                 |                        |
| 0.70<br>0.75<br>0.80   |                           |                         |                           |                         |                           |                         |                   |                 |                        |
| 0.90                   |                           |                         |                           |                         |                           |                         |                   |                 |                        |
| 1.00                   |                           |                         |                           |                         |                           |                         |                   |                 |                        |
| 1.20                   | 1230~<br>1470             | 1470~<br>1720           | 1520~<br>1760             | 1760~<br>2010           | 1670~<br>1910             | EB                      | ±0.015            | 0.015<br>max.   |                        |
| 1.40                   |                           |                         |                           |                         |                           |                         |                   |                 |                        |
| 1.60                   |                           |                         |                           |                         |                           |                         |                   |                 |                        |

Remark : With 200 (100) mm length taken, straightness is terms of height (h) in the center.

