

## 1008 Low Carbon Steel

AISI 1008 steel is a carbon (non-alloy) steel formulated for primary forming into wrought products.

It has the highest thermal conductivity among wrought carbon or non-alloy steels. In addition, it has a fairly low electrical conductivity and can have a fairly low tensile strength.

### Related Specifications

|         |          |        |
|---------|----------|--------|
| China   | :GB      | 08F    |
| Germany | :DIN     | St14   |
|         | :DIN EN# | 1.0330 |
| USA     | :AISI    | 1008   |
|         | :UNS     | G10080 |
| EU      | :EN      | DC01   |
| Japan   | :JIS     | SPHD   |

\* Note that materials compared are the nearest available grade and might have slight variation in actual chemistry

| Stocked Materials Supplied in Condition | Typical Hardness |
|---|------------------|
| Cold Drawn                              | 170 - 190 HB     |

### Typical Mechanical Properties

| Condition                       | Cold Drawn   |
|---------------------------------|--------------|
| Ultimate Tensile Strength (MPa) | 370          |
| Yield Strength (MPa)            | 190          |
| Elongation (%)                  | 22           |
| Hardness (HB)                   | 170 - 190 HB |

### Chemical Composition

| Carbon Steel-1008 |      | Mn   |      | C   |      | S   |       | P   |       | Si  |     | Ni  |     | Cu  |     | Cr  |     |
|-------------------|------|------|------|-----|------|-----|-------|-----|-------|-----|-----|-----|-----|-----|-----|-----|-----|
|                   |      | min  | max  | min | max  | min | max   | min | max   | min | max | min | max | min | max | min | max |
| STAR Standard     | 1008 | 0.3% | 0.5% | -   | 0.1% | -   | 0.05% | -   | 0.04% |     |     |     |     |     |     |     |     |

### Warning!!

Star's Carbon Steel-1008 Tested Chemical Composition : Carbon Content : ~ 0.18 % max (Out of standard range of 0.1%). Please confirm it's acceptable before placing order.

\*\* Star believes the information provided is accurate and reliable. However no warranty of accuracy, completeness or reliability is given, nor will any responsibility be taken for errors or omissions. Please request for specified test certificate if critical for end use.