



## Description & Size

AISI O1 is an oil-hardening cold-work tool steel. It is a general-purpose low-alloy tool steel, with good wear resistance and durability.

BSS supply O1 in sheet form

### Sheet Thicknesses:

From 2.46mm to 8.65mm thick

## Hardness

We typically supply O1 in a hardness of around 200vpn.

## Composition

	AISI O1
<b>Carbon</b>	0.85% - 1.00%
<b>Manganese</b>	1.00% - 1.40%
<b>Silicon</b>	0.50% max
<b>Chromium</b>	0.40% - 0.60%
<b>Nickel</b>	0.30 max
<b>Tungsten</b>	0.40% - 0.60%
<b>Vanadium</b>	0.03% max
<b>Copper</b>	0.25% max
<b>Phosphorous</b>	0.03% max
<b>Sulphur</b>	0.03% max

## Related Specifications

AISI O1 is a close equivalent to:

1.2510, BS B01, ASTM A681, SAE J437,  
SAE J438, UNS T31501

## Condition Supplied

BSS Supply AISI O1 Tool Steel in the following conditions:

Pickled annealed.



## Applications

O1 is used where traditional high carbon and alloy steels cannot reach sufficient hardness levels.

Typically, this would include:

- Ground flat stock
- Wear plates
- Rotary cutters
- Blades
- Punches and dies for forming metal components

Fast UK and  
international  
shipping

## Contact

For quotations and enquiries, or to place an order, please contact our customer service team.

Our office is open from:

8.30am - 5.00pm Mon - Thurs  
8.30am - 3:45pm Fridays.

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