

# THE BIG PICTURE

Description  
Composed mainly of ferrite and iron.  
Almost all are magnetic.

## FERROUS

Mild Steel

Stainless Steel

Carbon Steel

## PROPERTIES

Malleability

Ductility

Elasticity

Hardness

Toughness

## MARKING OUT TOOLS

Centre Punch

Engineer Square

Scriber

Description  
Contain no iron and consist almost entirely of pure metals and sometimes other elements together.

## NON-FERROUS METALS

Aluminium

Copper

Zinc

Brass

# METALS

## MILD STEEL

99.8% iron

0.2% carbon

## BRASS

65% copper

35% zinc

## WASTING AND ABRADING TOOLS

Adjustable Hacksaw

Hand File

Emery Cloth

## ALLOYS

Description  
A metal that is formed by mixing 2 or more metals and sometimes other elements together.

## PERMANENT JOINING METHODS

Soldering

Brazing

Welding

Rivets

## SCALE OF PRODUCTION

One-Off

Batch Production

Mass Production

Name

## TEMPORARY JOINING METHODS

Tapping and threading

Nuts, bolts and washers

Screws

## COMMERCIAL PROCESSES

Sand casting

Turning

Extrusion