

BASIC GUIDE TO FORGING TEMPERATURES AND COLOUR INDICATORS

WORLD ASSOCIATION OF TECHNOLOGY TEACHERS <https://www.facebook.com/groups/254963448192823/> www.technologystudent.com © 2020 V.Ryan © 2020

DEGREES CELSIUS

COLOUR

FORGING PROCESS

1300 °C

WHITE HEAT

Weld wrought iron

1200 °C

LIGHT LEMON HEAT

Weld mild steel

1100 °C

LEMON HEAT

1060 °C

BRIGHT YELLOW HEAT

Forging wrought iron and mild steel.

1020 °C

ORANGE RED HEAT

Main forging processes including: fullering, drawing down, upsetting and heavy punching

1000 °C

GLOWING RED

900 °C

BRIGHT RED

Forging of mild steel, such as hot cutting and light punching

800 °C

CHERRY RED

Forging of high carbon steel. DO NOT go above Cherry Red for these metals

580 °C

BLOOD RED

540 °C

FAINT RED

For simple bends in mild steel and high carbon steels