



POWERCOAT™

NEED TO LOSE WEIGHT?



Powergrade's unique new production process, Powercoat™, will allow you to lose almost **ONE-THIRD** of the weight of your components without compromising strength or durability.

Lower maintenance costs.

Lower failure rate.

Longer component life.

Higher operating speeds.

To find out how we can redesign your product, to make it harder, faster and 1/3rd **LIGHTER** in just 6 weeks,

Call us today on 02476 101 700

A graphic element consisting of two thick, curved, parallel lines in shades of green and blue, resembling a stylized 'P' or a swoosh.

POWERGRADE

Suitable Alloys:

Wrought alloys:

1200, 3003, 3103, 5052,
5083, 5086, 5251, 6061,
6063, 6082, 6262, 7075.

Sand or Chillcast alloys:

LM4, LM5, LM25

Lubricity

Substantial reduction of static and dynamic friction.
Coefficient of friction as low as 0.05

Corrosion Resistance

Exceeds basic 336 hr salt spray test as per A.S.T.M. B117 by 2000 hours.
Withstands extended exposure to solutions within PH range 3.0 - 9.5

Weather Resistance

Excellent resistance to Ultra Violet light and all climatic conditions.

Cleanability

A non-contaminating surface, with easy clean characteristics.

Colour

Mid to light grey



Dielectric Resistance

2000 volts for coatings with a 50 microfilm thickness when tested per A.S.T.M. B110

Thermal Resistance

Operating range 150°C to 300°C

Wear and Abrasion

Exceeds Mil 8625/D spec. Tabour abrasion requirements by 10-30% dependent on alloy type.

Thermal Conductivity

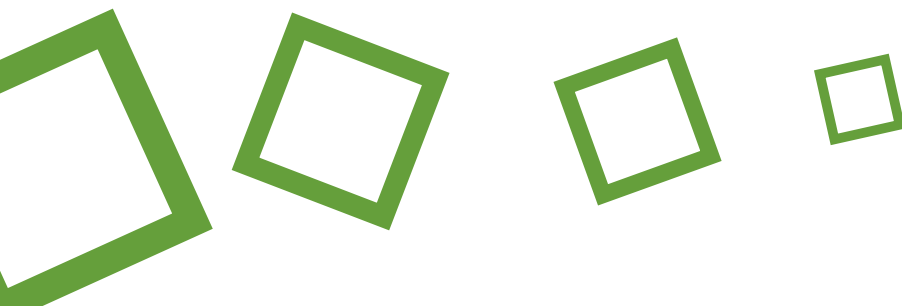
$1.7 \pm$ BTU/HR/sw.ft/Deg.F.

Heat Capacity

0.25 BTU/l8/Deg. F.

Hardness

300 - 450 VPN dependent on chosen alloy





We will take your existing product or product idea,
And **redesign** it
so that any steel components
Can be replaced by wrought, sand or chillcast alloy.

We will then apply a PTFE impregnated Hard
Anodised film
To achieve a self lubricating, low friction, self-caring
surface

With **high corrosion resistance**

We will make your product:

Lighter
Harder
Cleaner
More heat resistant
Longer lasting

We call this Process:

POWERCOAT TM

POWERCOAT™



Excellent Corrosion Resistance

Lower Maintenance Costs

Longer Component Life

Improved Production

Higher Operating Speeds

Excellent Adhesion

Light Weight Material

Scratch Resistant to Abrasive Particles

Less Down Time

Uniformity of Colour

100% Light Fast

Lower Failure Rate

Higher Voltage Resistance

Scuff Resistant

2 Curriers Close | Charter Ave Ind Estate
Coventry | CV4 8AW

Tel: 02476 101 700

www.powergrade.co.uk

