

# Metal Powders from William Rowland

**WILLIAMROWLAND**

[www.william-rowland.com](http://www.william-rowland.com)

**William Rowland offers a comprehensive range of metallic powders for a vast variety of different applications spread across several industries including aerospace, oil and gas and automotive.**

We supply metal powders in different particle sizes, shapes and alloys, from irregular to spherical, ranging from aluminium through to zinc. Our range of metallic powders is a combination of in-house produced, quality controlled externally 'tolled' (atomised or crushed), and trusted agency partner powders such as DCX Chromium, Vale Nickel Powders and Praxair Thermal Spray Powders.

In 2019, we manufactured our first atomised powders using specially sourced raw materials through our revert alloys business segment. This is a key part of our business for the additive manufacturing market and our strength in high purity metals and alloys ensures competitiveness.



Silicon metal powder



Laboratory

## Laboratory

We have on-site an integrated laboratory and links with both UKAS and NADCAP accredited laboratories, capable of both chemical and classification analysis including but not limited to:

- ICP chemical analysis including major and trace elements.
- Carbon & sulphur + oxygen & nitrogen LECO analysis.
- Particle size distribution and sieve distribution analyses.
- Bulk density, oil and moisture analysis.
- All analyses are available on a 24-hour turnaround and fully certified.

## Technical support/R&D

We offer comprehensive technical consultation whether that be for initial powder selection, help with specifications and testing or material properties and processing capabilities. Our technical support structure includes metallurgists with several decades of experience and expertise in these areas.

We work closely with many research institutions and universities to ensure that we stay at the forefront of new processes and technologies. This involves development of exotic, more highly alloyed powders in line with our revert and refined metal offerings. Additive manufacturing is one area of industry where these R&D projects are focused.

## Crushing, milling sieving processes

We have capability both in house and with our trusted partners to reduce the particle size of materials via a number of classification methods:

**Crushing** – Reducing large lumpy materials into smaller more manageable lumps which can then be used as is or provide feedstock for further milling and sieving.

**Grinding/Milling/Sieving** – Larger size feedstock done via impact mills and fine milling carried out on equipment with in built air classification.

In house capabilities to crush and sieve powders down to sizes <20um. Batch sizes range from small laboratory melts (1kg) to 20mt production batches.

Material can also be packed as per customers requirements and/or specifications.

## Specialised blends for atomisers

By utilising our access to high purity metals and alloys William Rowland also supply specialised small lot blends to various atomising companies consisting of virgin, virgin/revert ratios as applicable. Taking great care to use the most compact materials to improve crucible density.



Sieving



Packing

**WR**   
**ALLOYS  
AND SOLDERS**

**WR**   
**METAL  
POWDERS**

**WR**   
**REVERT  
ALLOYS**

**WR**   
**REFINED  
METALS**

T: +44 (0) 114 276 9421

E: [info@william-rowland.com](mailto:info@william-rowland.com)