



# CONSISTENT PERFORMANCE GAME-CHANGING TECHNOLOGY

METAL POWDERS FOR ADDITIVE MANUFACTURING/ 3D PRINTING



# GOOD POWDER FLOW – THE KEY TO UNIFORM PART BUILD

## CHOOSE OUR GAS ATOMIZED POWDERS

Additive manufacturing, or 3D printing, is a game-changing technology. To get optimum results and uniform part build it is essential to use high quality metal powders with good flow characteristics. At Sandvik Osprey, metallurgy is our field of expertise, and we have developed the free-flowing metal powders you need.

## THE SPHERICAL SHAPE MAKES THE DIFFERENCE

Thanks to their spherical morphology, our gas optimized powders for additive manufacturing applications offer excellent flow and high packing density. These characteristics, along with their low surface oxide levels, make them ideally suited for all additive manufacturing technologies.

## WHETHER IT'S POWDER BED FUSION...

With electron beam or laser processes, when applying fresh powder layers to the powder bed, the good flow and high packing density that our metal powders offer will ensure uniform and consistent part build.

## ...OR DIRECT METAL DEPOSITION

Here too, the excellent flow characteristics of our metal powders ensure that the parts are uniformly built. So it makes perfect sense to choose our powders.

## QUALITY YOU CAN RELY ON

How important is powder quality to you? Quality variations can negatively impact your process.

Our metal powders offer the same consistent high quality, both within batches and from batch to batch.

## WHATEVER THE PROCESS, WE HAVE THE POWDER

Our range of metal powders is suitable for all additive manufacturing techniques and applications, including:

- Infiltration
- Selective laser melting
- Electron beam melting™
- Direct metal deposition
- Laser engineered net shapes

## HOW CAN OUR PRODUCT RANGE INSPIRE YOU?

Take advantage of a comprehensive range of metal powders for additive manufacturing to create new components and products.

- Maraging steels
- Stainless steels
- Nickel based superalloys
- Tool Steels
- Cobalt alloys
- Low alloy steels
- Copper and bronze alloys

## TAILORED PARTICLE SIZE DISTRIBUTION

Just tell us your process requirements and end-application and we will help you tailor the particle size distribution range to optimize performance, surface finish and cost.



Our metal powder products are manufactured using proprietary technology and available in a wide range of standard and customized alloys to comply with ISO 9001, ISO 14001 and OHSAS 18001.

#### **YOUR SUCCESS IS OUR BUSINESS**

We are a responsive, flexible and reliable partner. When you choose our products, our experienced staff listen to your needs and do their utmost to give you the most efficient service and technical support possible. Working in partnership with you we can help you achieve end-products with the highest quality and value...and sustainability for your business.

#### **OPERATING IN ONE OF THESE SECTORS?**

- Rapid tooling: maraging steels, tool steels
- Medical/dental: cobalt alloys, stainless steels
- Aerospace: nickel based superalloys

#### **WE SPEAK YOUR LANGUAGE**

Contact us. With sales offices in all regions there is always a Sandvik representative close to you. Let us help you today...

Recommendations are for guidance only, and the suitability of a material for a specific application can only be advised when the actual service conditions are known. Continuous development may necessitate changes in the technical data without notice.



