



FOCUSED EXPERTISE EXPANDS YOUR POSSIBILITIES

METAL POWDERS FOR METAL INJECTION MOULDING



IDENTICAL CHARACTERISTICS, BATCH AFTER BATCH

OUR METAL POWDERS OFFER THIS – SO SHOULD YOURS!

The surface finish, quality and value of your end-products depend on the quality and consistency of the metal powders you use. Our metal powders for metal injection moulding offer the same high quality at all times – within each batch, and from batch to batch. So talk to Sandvik Osprey!

THE SPHERICAL SHAPE MAKES THE DIFFERENCE

Make your process more efficient. Our gas atomized metal powders have excellent flow characteristics thanks to their spherical morphology. This means reduced tool wear, consistent mould filling, and sintering with less energy consumption.

LOW OXYGEN CONTENT PUTS YOU IN CONTROL

The low oxygen content of the powders allows better control of carbon and consistency in sintering. Also, together with high packing density, the low oxygen content enables faster sintering. Our know-how is the result of long experience of working to improve our customers' processes.



TIME TO CUT YOUR PROCESS COSTS!

Many metal powder manufacturers can't give full value since their non-spherical powders have low packing density and larger amounts of binder are required.

Work with us and that won't be an issue. Due to their spherical morphology, our gas atomized metal powders give high packing density, which enables you to manufacture feedstocks with up to 6% higher powder loading. You not only minimize your binder costs, you also reduce part shrinkage, which improves the dimensional tolerances of the finished parts.

PRODUCT RANGE

- Stainless steels
- Master alloys
- Nickel based superalloys
- Cobalt alloys
- Tool steels and high speed steels
- Magnetic alloys
- Binary alloys
- Low alloy steels
- Copper and bronze alloys

ARE MASTER ALLOY POWDERS YOUR BEST CHOICE?

We have the answer to this and many other questions – metallurgy is our field and our passion! Our master alloy powders are blended with carbonyl iron powder in such a way that the chemical composition of the final sintered component matches that of the pre-alloy alternative. For many end-products, the master alloy approach offers:

- Low distortion in both the green and sintered state
- Shorter sintering times
- High sintered density
- Sintering is initiated at much lower temperatures than those of the prealloy equivalent
- Mechanical properties equivalent to wrought materials

Rely on us to recommend master alloy powders if they are the optimal choice for your end-product.



WHATEVER YOU NEED WE HAVE IT!

How can our broad product range inspire you? Take advantage of the widest range of metal powders for MIM on the market today to create new components and products. Just tell us your process requirements and end application and we will tailor the particle size distribution range to optimize performance, surface finish and cost. Our gas atomized metal powders are available in particle size distributions from $<5\mu\text{m}$ to $<38\mu\text{m}$.

Our metal 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.

...AND IT DOESN'T END THERE

If you want an alloy that is not available for MIM applications, we can develop it for you, and suggest modifications where necessary. Combine your know-how with our innovative materials expertise and expand your possibilities.

YOUR SUCCESS IS OUR BUSINESS

We are a responsive, flexible and reliable partner. When you choose our products, our experienced staff listens

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.

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.

