

Precision Powder
Formulation

A Linde company

PRAXAIR
SURFACE TECHNOLOGIES



Making our world
more productive

Tru2Spec[®]

For Your Innovative AM Applications



Precision Powder Formulation

Precision AM Metal Powders Designed for Your Innovative Applications

Metal AM is opening new frontiers in the possibilities of parts engineering. Today's AM parts are designed to be more efficient and dynamic than ever to solve the world's most demanding applications.

Are your parts submitted to:

- Longer life cycles?
- Higher pressures?
- Extreme temperatures?

Does your application require:

- Part consolidation?
- Higher density?
- Weight Reduction?

Formulate a precision powder that's up to the task

Tru2Spec™ precision powder formulation, only from Praxair Surface Technologies, enables you to create a custom AM metal powder that meets the exact specifications of your most demanding applications. No more guessing if an off-the-shelf powder will hit the spec and meet your requirements.

With precision formulation, you'll know you have the right material for the task.

1 PHASE

VISUAL FORMULATION

Evaluate your custom powder before it's ever produced

Collect application specifications:

- Operating environment
- Desired powder characteristics
- Part production method

Develop precision powder formulations

Create detailed powder profile and analysis:

- Chemistry profile
- Particle sizing
- Flowability measures
- Certifications specific to your requirements

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PHASE

POWDER PROTOTYPING

Test powder performance in trial-sized batches

Produce small lots (as little as 5 kg) of powder for customer testing, verification and potential printing

Refine powder formulation based on trial results

Conduct quality assessments and create scale-up documentation

3

PHASE

PRODUCTION SCALE-UP

Produce approved powder for commercial use

Produce custom powder in lot sizes from 5 kg to 2,500 kg

Deliver powder in a matter of weeks, not months

HOW Tru2Spec[®] WORKS



Over 50 years of metal powder manufacturing experience

Praxair Surface Technologies pioneered many of the technologies in metal powder manufacturing and is recognized as a leader in high-performance industrial powders. Now, through our line of TruForm™ metal powders and precision alloys, we apply this expertise to metal powders specifically for demanding AM applications.

TruForm™ metal powders are premium-grade, for trusted quality to meet some of the tightest specifications in the world. Our production processes and unmatched capacity allow us to produce TruForm metal powders at high volumes, with flexible lot sizes ranging from 5 kg to 2,500 kg.

Contact Us Today

Contact our technical sales team for a free precision powder formulation consultation.

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