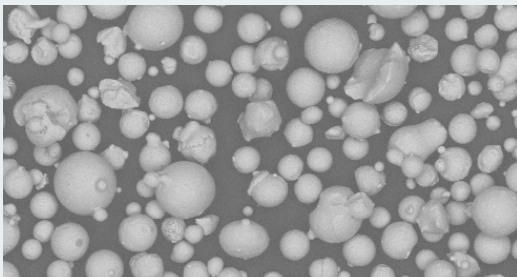


# TruForm™ M300 Metal Powder

TruForm™ M300 is a maraging tool steel that exhibits high strength and excellent hardness. TruForm™ M300 is commonly used to fabricate parts for injection molding, die-casts, and other high performance applications. Several variations of M300 chemistries are available. Also known as: 1.2709, 18Ni300, X3NiCoMoTi 18-9-5.

## Particle Size Distribution

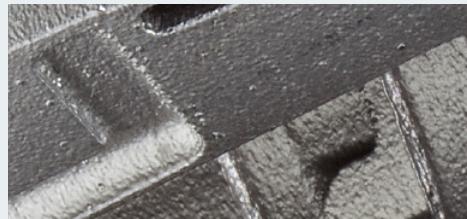
Powders are available in a wide variety of particle size distributions and can be customized for your applications.



Representative SEM Image - TruForm™ M300

## TruForm™ Metal Powders for All Additive Manufacturing Processes Including:

- Direct Metal Deposition (DED)
- Direct Metal Laser Sintering (DMLS)
- Electron Beam Melting (EBM)
- Laser Metal Deposition (LMD)
- Laser Powder Bed Fusion (LPBF)



ELEMENT	TYPICAL COMPOSITION
Fe	Bal
Ni	17.0 - 19.0
Co	8.0 - 11.0
Mo	4.5 - 5.2
Ti	0.3 - 1.2
Al	0.15 Max
Cr	0.50 Max
Si	0.10 Max
Mn	0.10 Max
C	0.03 Max
P	0.03 Max
S	0.01 Max

Typical Mechanical Properties (contact us for additional property data)

ROOM TEMPERATURE	HEAT TREAT PER ASM 5915	MIN. AMS 5915	
Tensile Strength	(XY)	1175 ± 100 MPa 170 ± 15 ksi	2150 ± 100 MPa 312 ± 15 ksi
	(Z)	1100 ± 100 MPa 160 ± 15 ksi	2105 ± 100 MPa 312 ± 15 ksi
Yield Strength	(XY)	1050 ± 100 MPa 152 ± 15 ksi	2100 ± 100 MPa 305 ± 15 ksi
	(Z)	990 ± 100 MPa 144 ± 15 ksi	2100 ± 100 MPa 305 ± 15 ksi
Elongation	(XY)	15 ± 5%	5 ± 2%
	(Z)	15 ± 5%	6 ± 2%
Hardness	(XY)	37 ± 2 HRC	54 ± 3 HRC
	(Z)		

# TruForm™ Metal Powders for Additive Manufacturing

A Linde company



Making our world  
more productive



## AM Quality Lab

Our quality laboratory is NADCAP accredited and registered as an ISO-9001:2008 and AS9100 facility. We offer 100 percent lot inspection along with a certificate of analysis that details the variety of quality tests we conduct from our state-of-the-art facility. This ensures your printed products meet your performance and surface finish specifications.

## Contact Us Today

Contact our technical sales team for guidance in selecting a material, requesting an alloy not listed here, or for additional details.  
[praxairsurfacetech.com/am](https://www.praxairsurfacetech.com/am)

USA [TruForm@linde.com](mailto:TruForm@linde.com)

EU [AME.Europe@linde.com](mailto:AME.Europe@linde.com)



## Powder Atomization Capabilities

Praxair Surface Technologies is a worldwide resource for fine and spherical, gas-atomized powders and a leader in vacuum induction melt argon gas atomization (VIM-AGA) technology.

We operate numerous vacuum induction melt units with Argon gas atomization and pour more than 5+ million lbs of powder each year.



## Additive Manufacturing Lab

We are printing parts every day in our AM metal powder laboratory to ensure that layer by layer, you are getting a premium product that can produce products to your exacting specifications.

Praxair Surface Technologies, a Linde Company  
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