# Maraging steel <br> for ProX＇m 200 and 300 Direct Metal Printers 

A fine metal powder with properties like 1.2709 for direct production of tools and molds as well as high－performance parts that require high strength and hardness


## Technical Data

Chemical Composition
Maraging Steel（like 1．2709）

| Element | \％of weight |
| :---: | :---: |
| Fe | Balance |
| Ni | $17.0-19.0$ |
| Co | $9.0-11.0$ |
| Mo | $4.0-6.0$ |
| Ti | $0.9-1.0$ |
| Si | $\leq 1.0$ |
| Mn | $\leq 1.0$ |
| C | $\leq 0.03$ |

## Applications

－Tools and molds for injecting molding， die casting and extrusion
－High－performance industrial parts，e．g． tire manufacturing and automotive
－High－wear components
－Aerospace

## Features

－High strength
－Easily heat treatable
－High hardness
－Good corrosion and wear resistance
－Good weldability and machinability

As－built very fine microstructure in two perpendicular directions of view
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## Mechanical Properties ${ }^{1}$

|  | Condition |  | As－built ${ }^{2}$ |
| :--- | :---: | :---: | :---: | \(\left.\begin{array}{c}After post heat <br>

treatment^{3}\end{array}\right]\)
${ }^{1}$ Parts built on a ProX 200 Direct Metal Production Printer
${ }^{2}$ As－built refers to the state of components built on the ProX 200 Direct Metal Printer before any post processing except removal from the build platform
${ }^{3}$ Different post heat treatments might be applied for this type of alloy


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[^0]:    Warranty／Disclaimer：The performance characteristics of these products may vary according to product application，operating conditions，or with end use．3D Systems makes no warranties of any type，express or implied，including，but not limited to，the warranties of merchantability or fitness for a particular use．

