

Höganäs[®] - Prospettive di sviluppo dei sinterizzati

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Höganäs nel mondo



HÖGANÄS EUROPE

- UK
- Germany
- Belgium
- France
- Spain
- Italy
- Poland
- Bulgaria
- Romania
- Hungary
- Czeck Republic
- Russia
- Turkey
- Israel
- South Africa

Höganäs

NORTH AMERICA HÖGANÄS

- USA/Mexico

Johnstown, PA

HÖGANÄS BRAZIL

- Brazil/Argentina
- Colombia

Sales region
Tech Center
Agents and Distributors

HÖGANÄS CHINA

Shanghai

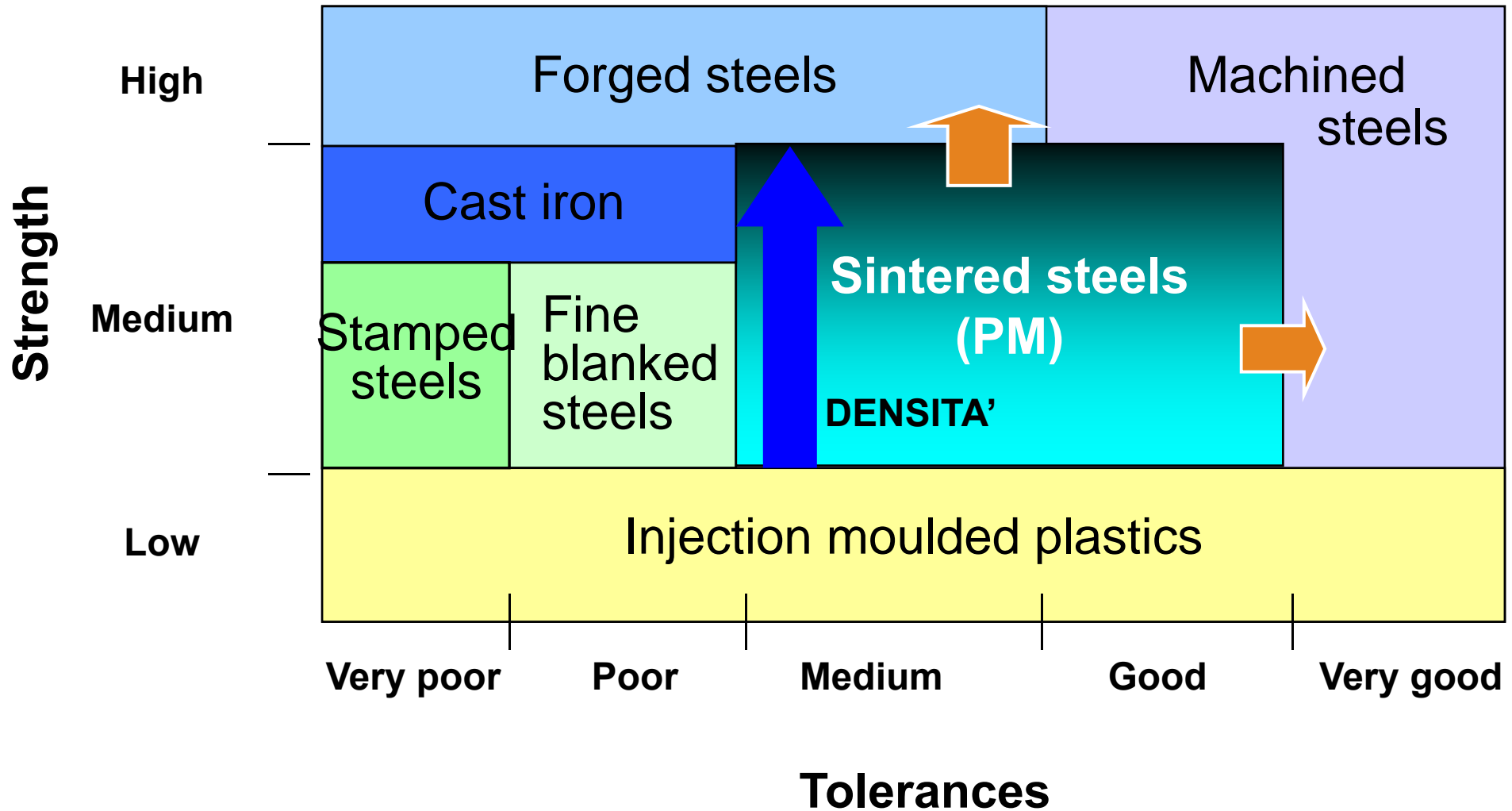
- China
- Taiwan
- Japan
- South Korea

HÖGANÄS INDIA

- Malaysia
- Thailand

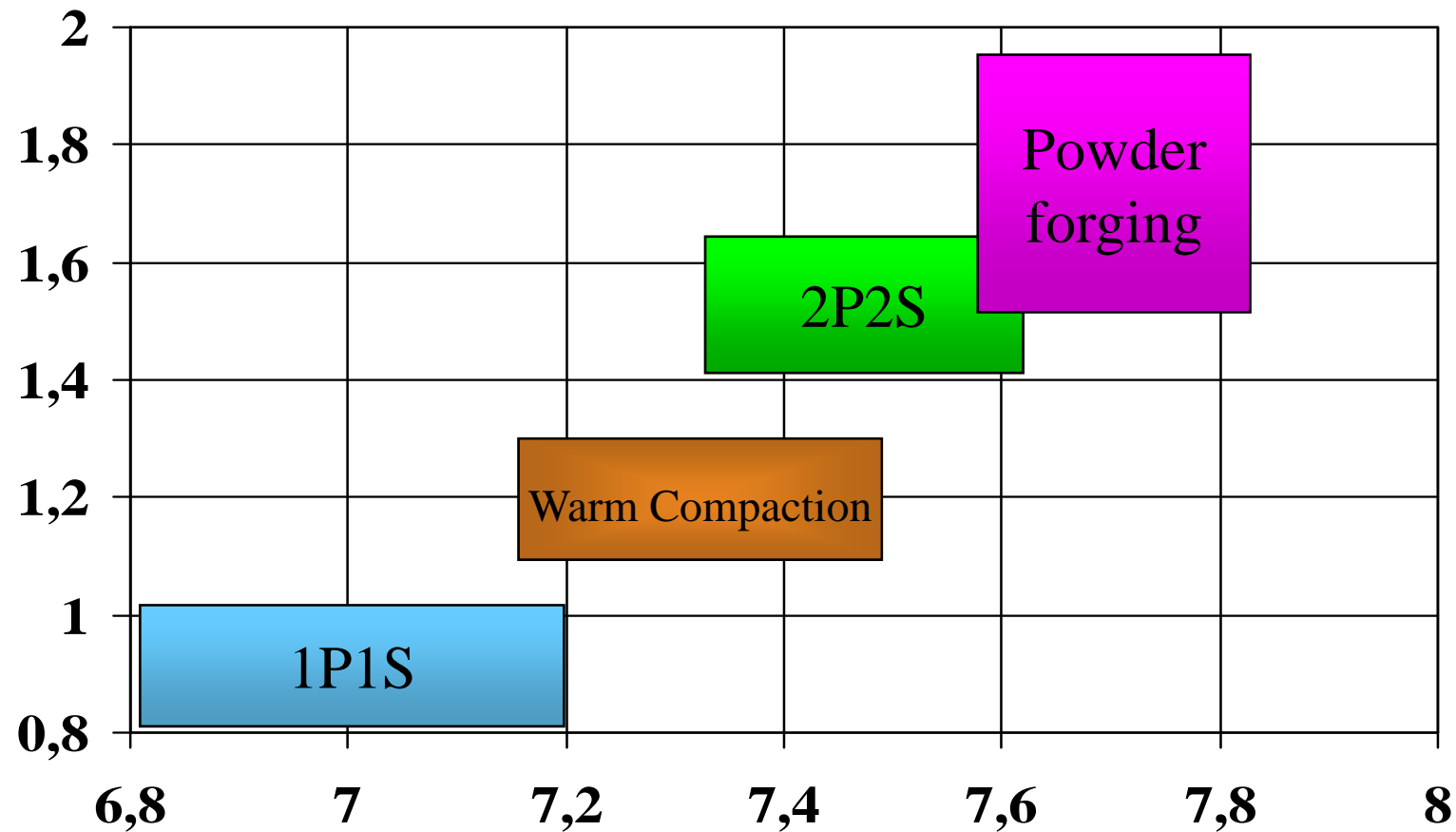
- Australia

La metallurgia delle polveri





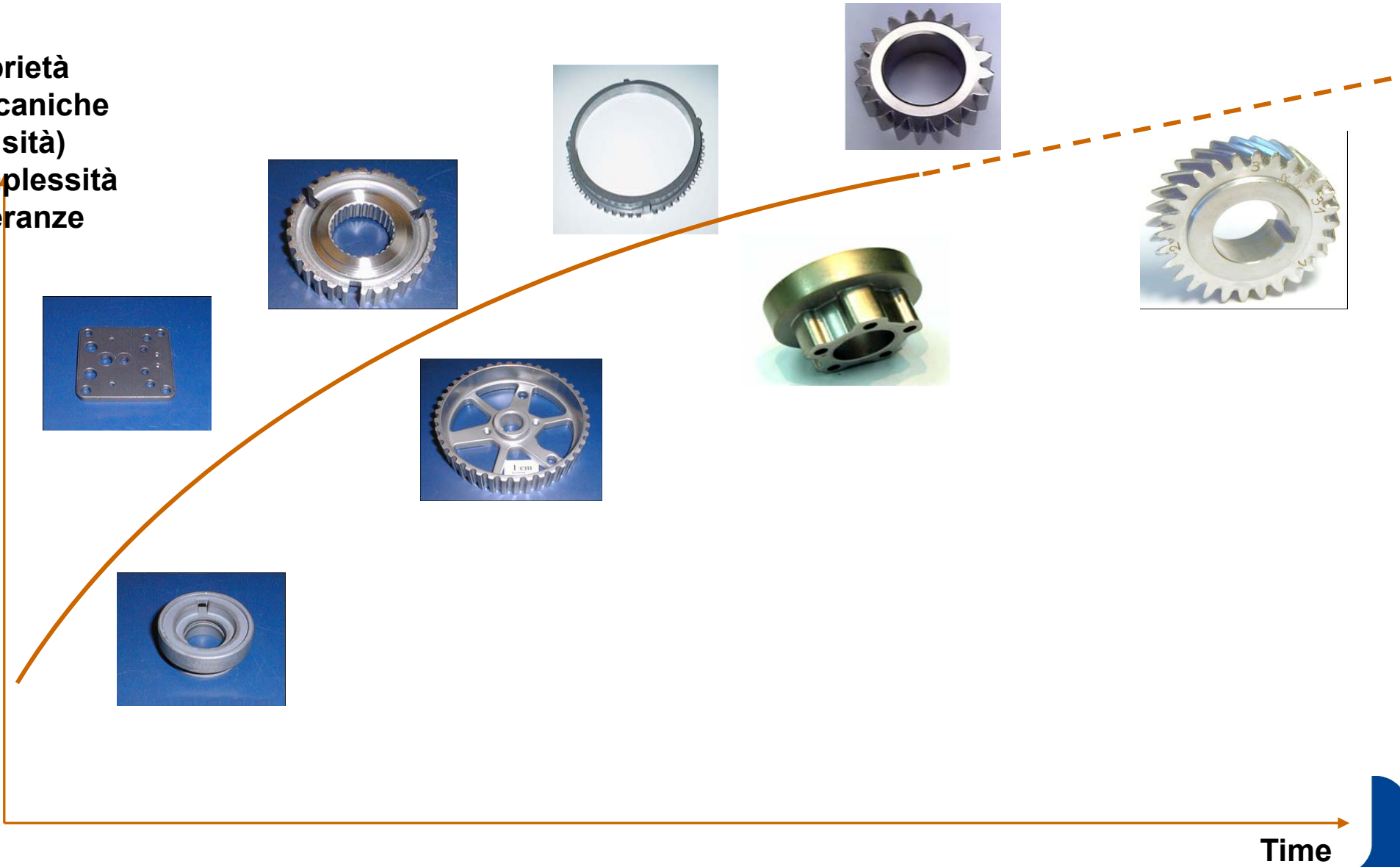
Confronto costi processi di pressatura



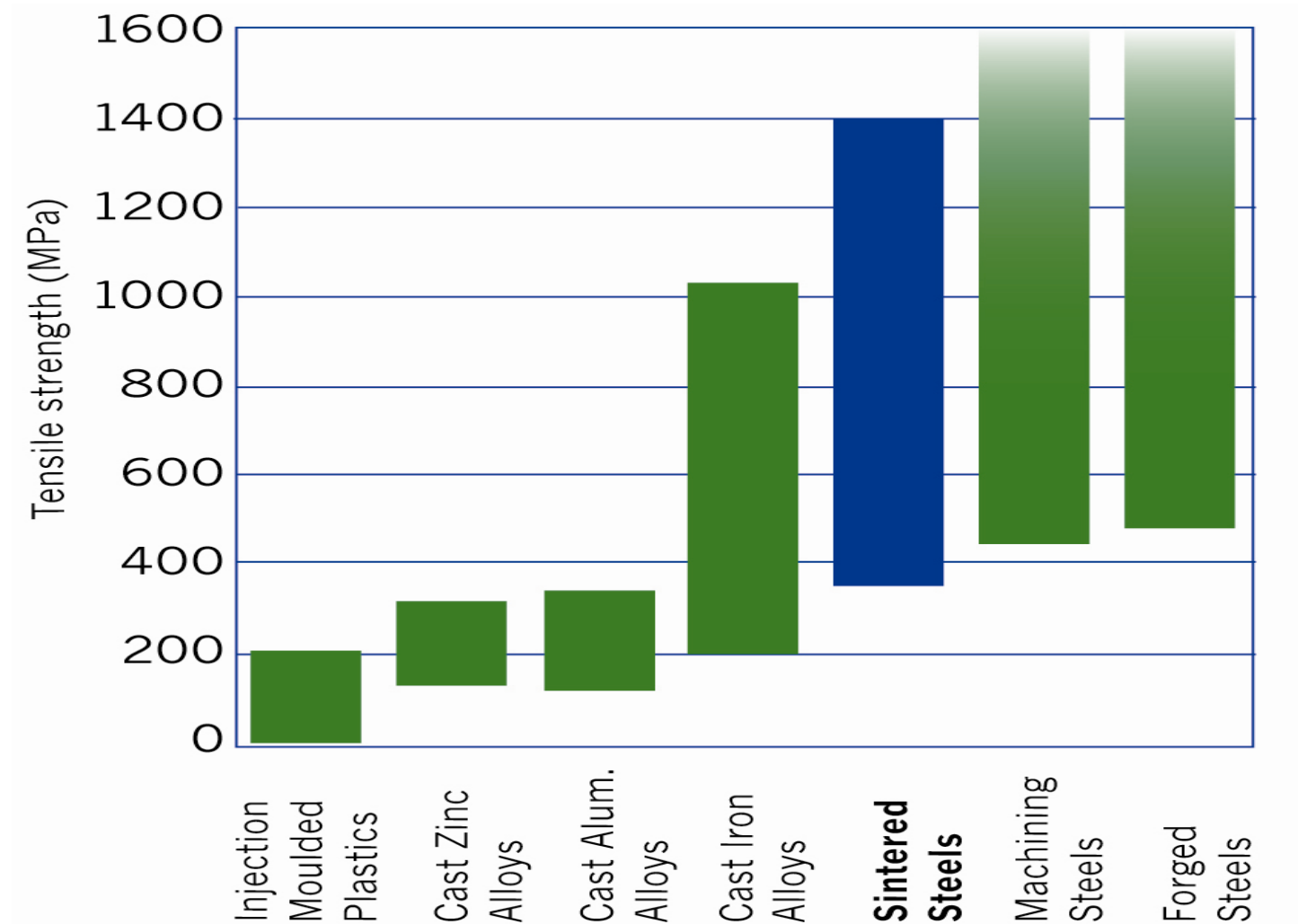
Evolution of PM



Proprietà
Meccaniche
(Densità)
Complessità
Tolleranze

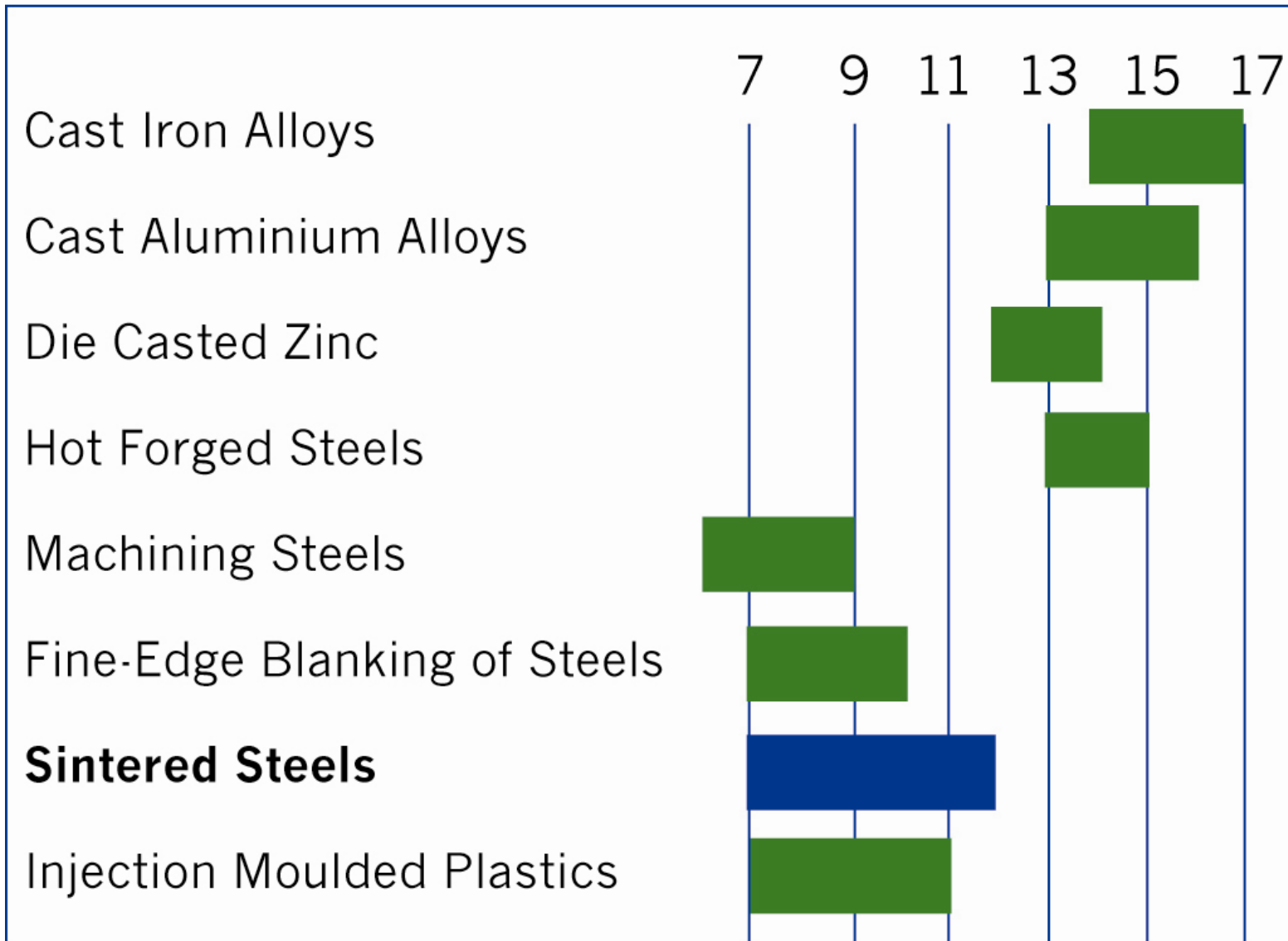


Comparison of material strengths

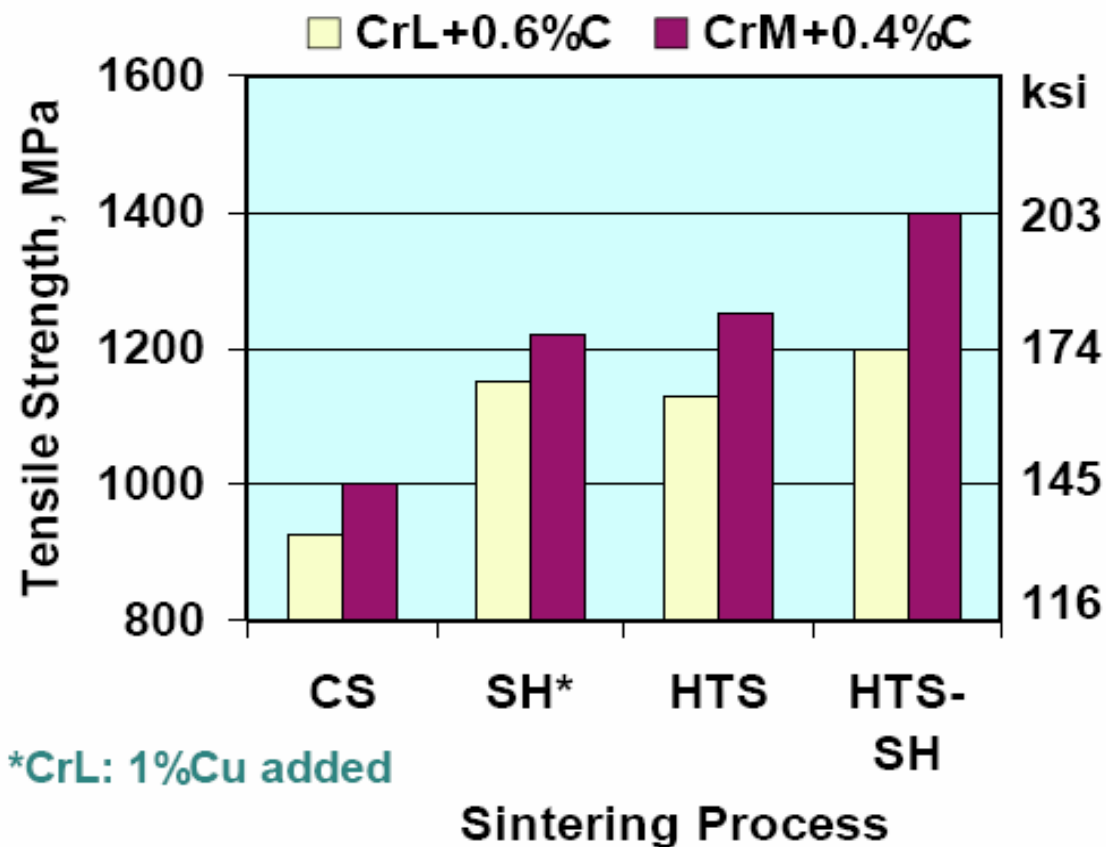


Source: MPIF

Typical tolerance ranges (IT) for various materials and manufacturing processes



Proprietà AstaloyCrM @ 7,0-7,1gr/cm³



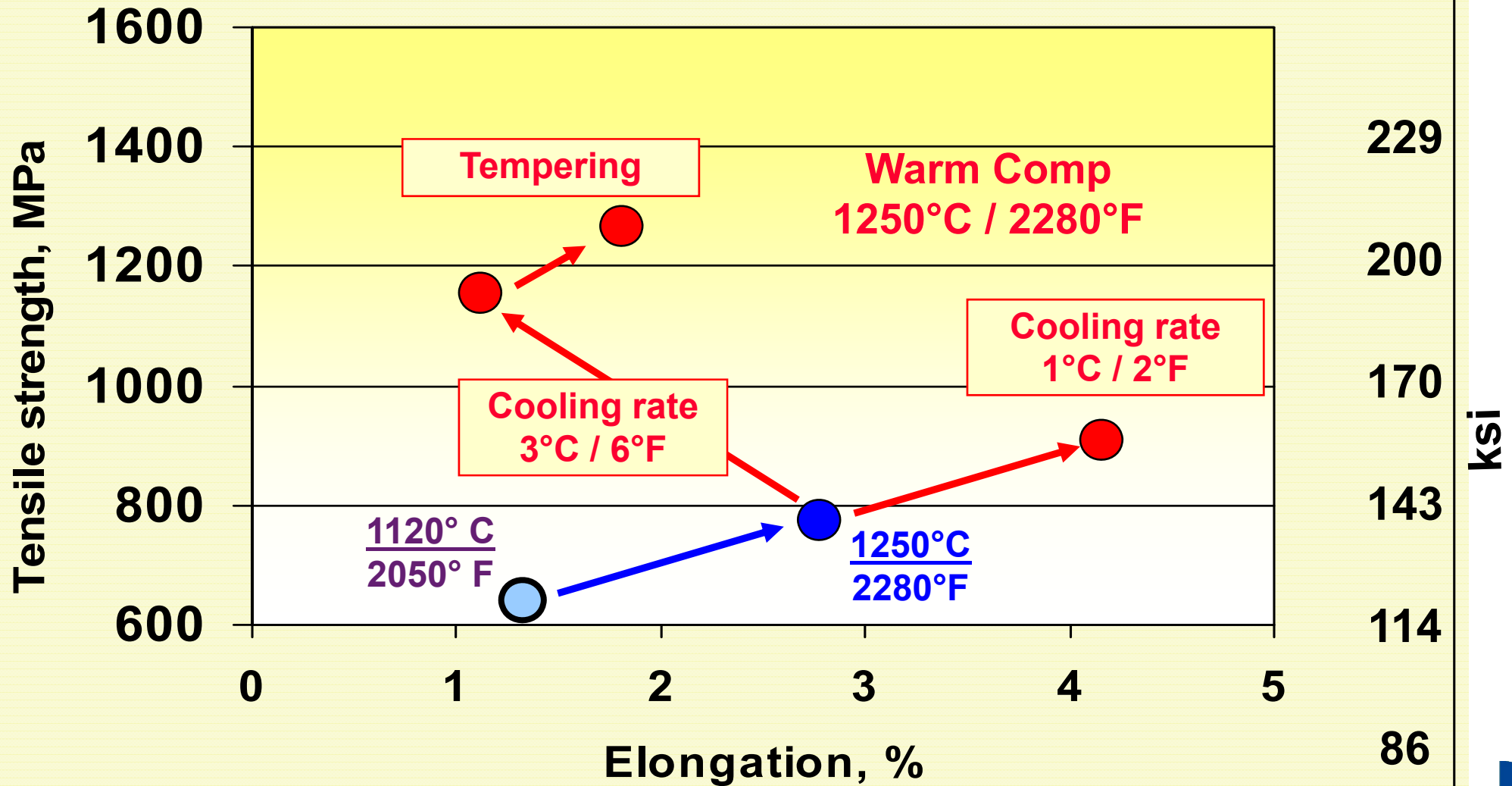
CS: conventional sintering at 1120°C (2050°F)

SH: sinterhardening at 1120°C (2050°F)

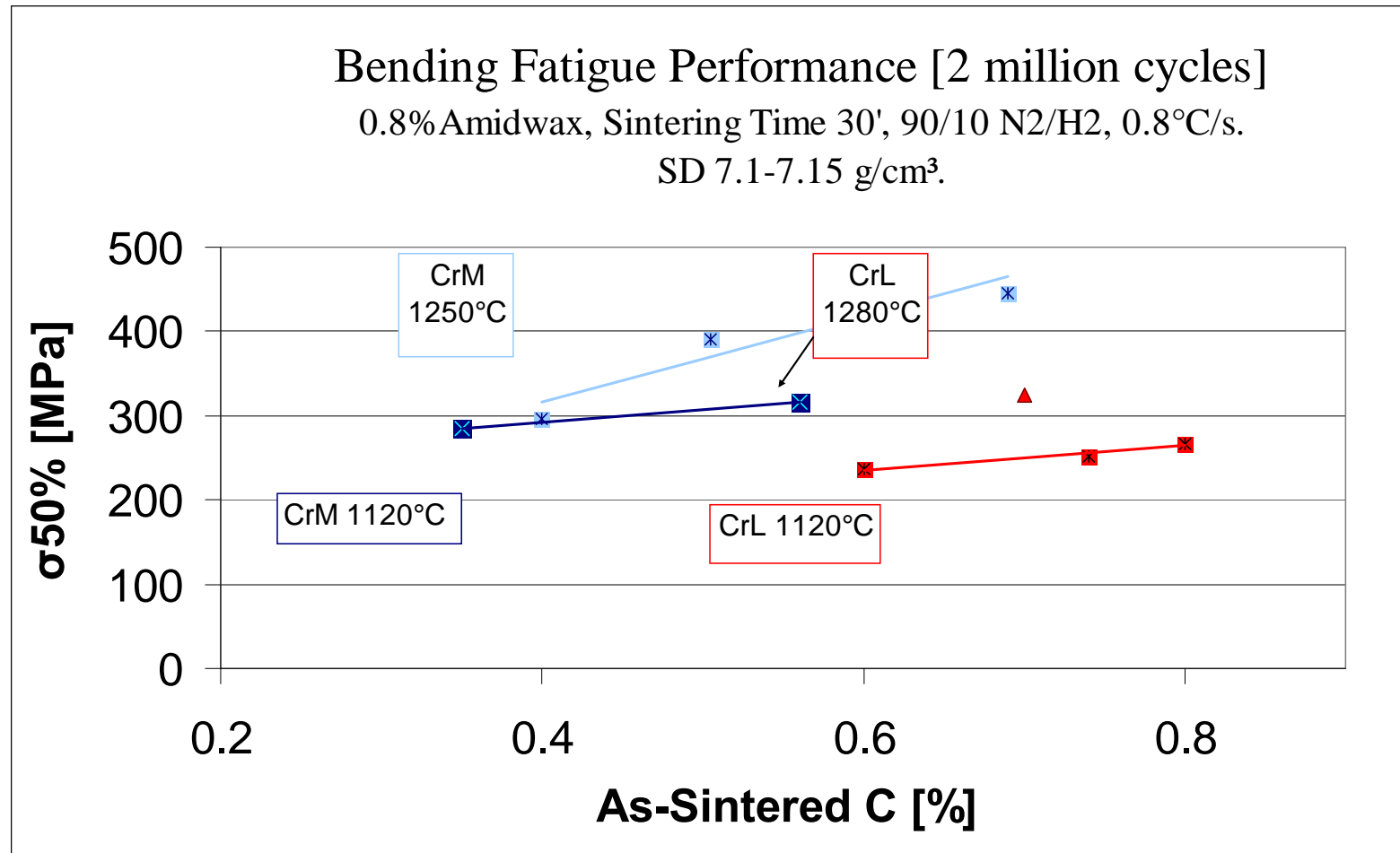
HTS: high temperature sintering at 1250°C (2350°F)

HTS-SH: high temperature sintering and sinterhardening at 1250°C (2350°F)

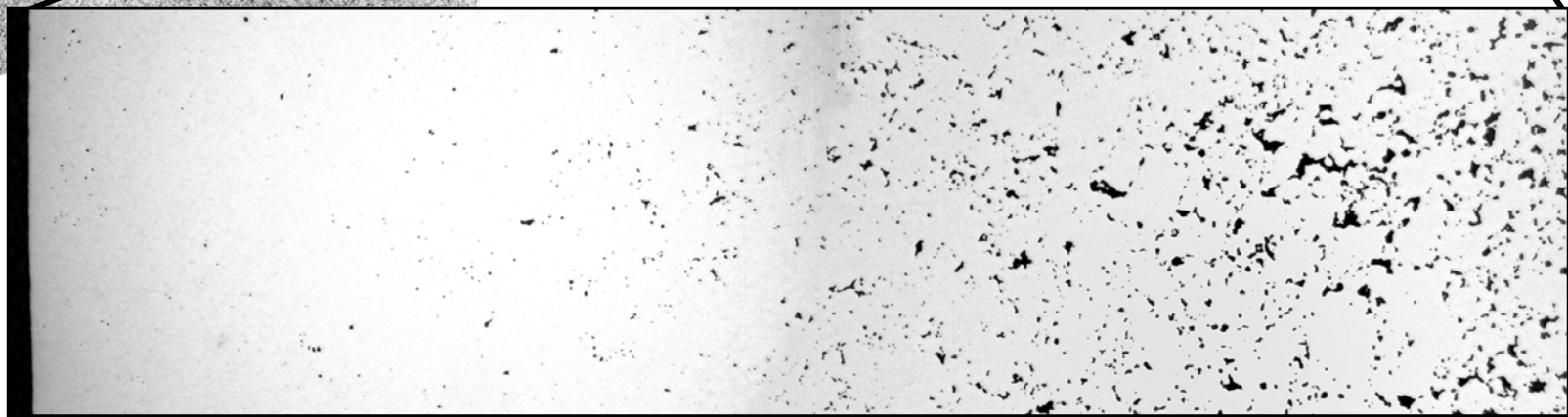
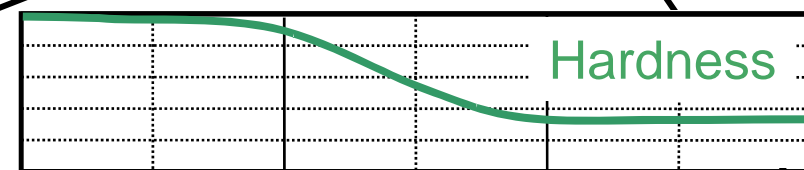
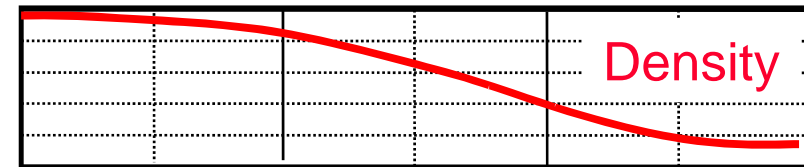
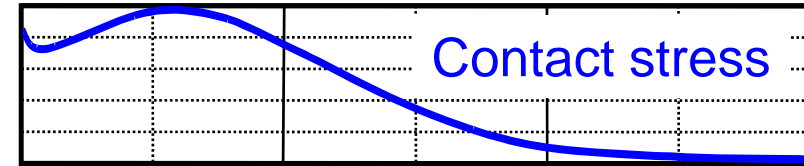
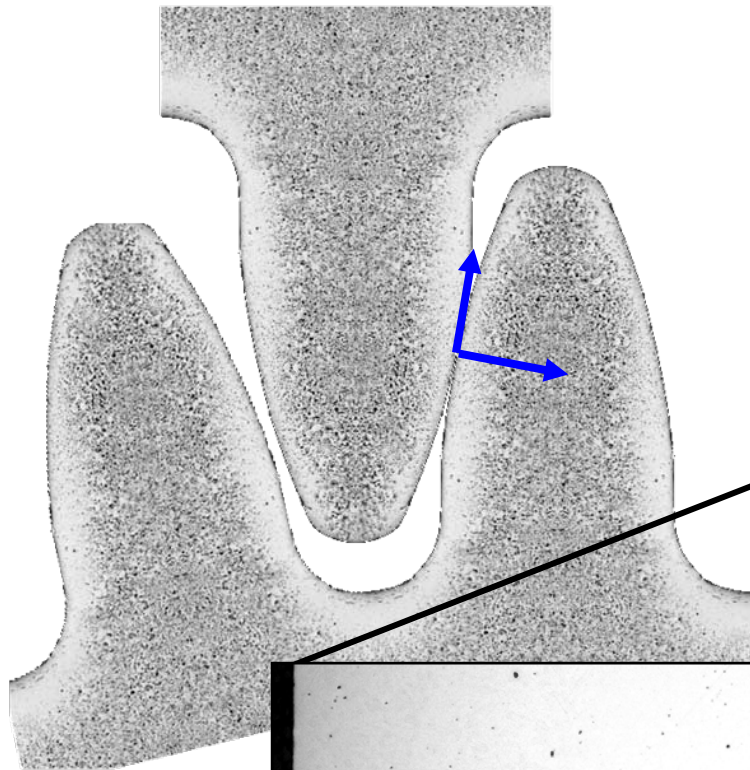
Astaloy CrM / 0,4%C



Resistenza a fatica



Surface densification





Surface Densification





Why use PM?

Design freedom

Environmentally friendly process

Broad range of alloy compositions with unique properties

Lowest per unit cost in long series

Robust manufacturing process

Near-net shape with few process steps

Elimination of scrap

Close dimensional tolerances



**Cost
Effectiveness**

**Höganäs[®] -
Partner in Metal Powder Solutions**