

Distaloy DE

Diffusion-alloyed powders for Pressing & Sintering

High-performance sinter-hardening solution for demanding applications

Distaloy DE is a diffusion-bonded and pre-alloyed metal powder designed for demanding, dynamically loaded applications.

With the same nominal chemical composition as Distaloy AE, Distaloy DE offers improved hardenability through its pre-alloyed Mo base powder, while maintaining good compressibility and excellent dimensional stability.

Main product benefits:

- Diffusion-bonded and pre-alloyed system
- High compressibility
- High hardenability
- Robust sintering performance
- MPIF Std 35 FLN4C-4005

Scan the QR code for more information about the Pressing & Sintering product line and other Höganäs products.

Basic product characteristics

Chemical composition

Ni	Cu	Mo	Fe
4%	1.5%	0.5%	Bal.

Sieve analysis

+ 250 µm	+ 150 µm	-45 µm
0%	14%	18%

Powder properties

Apparent density	Flow (G
3.08 g/cm³	24 s/50 g

Compressibility (g/cm³)

Compaction pressure	400 MPa	600 MPa	800 MPa
Distaloy DE – Lubricated die	6.71	7.19	7.44
Distaloy DE + 0.6% Lube E	6.71	7.14	7.34

Cold die

Green strength, MPa

Compaction pressure	400 MPa	600 MPa	800 MPa
Distaloy DE – Lubricated die	17	31	45
Distaloy DE + 0.6% Lube E	13	20	23

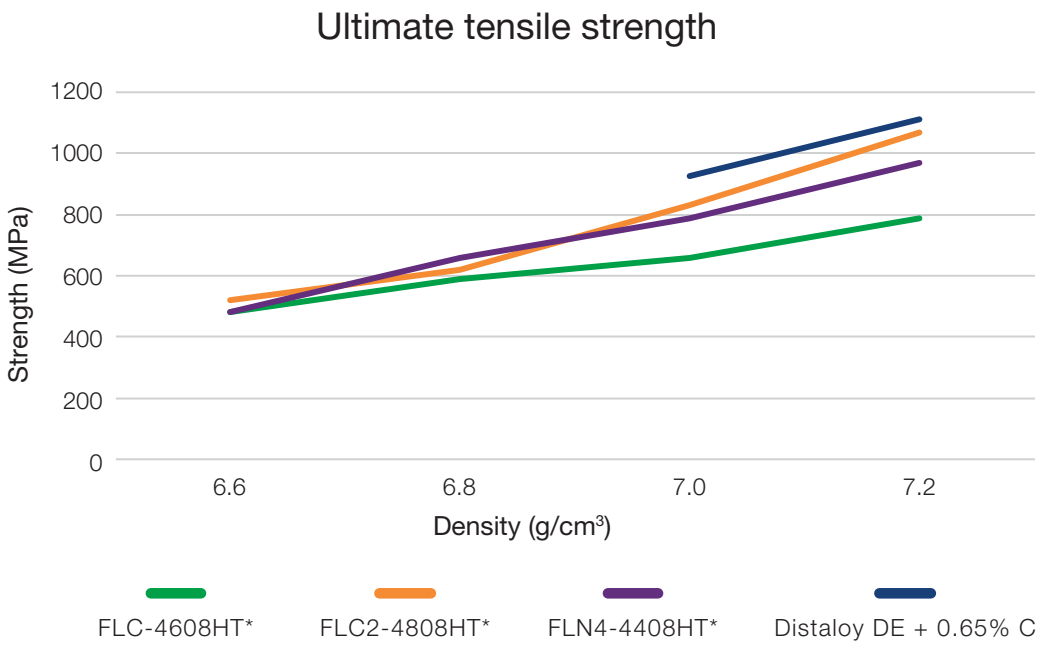
Cold die

Robust sintering

Distaloy DE does not require special sintering atmosphere considerations. Both conventional nitrogen/hydrogen and endogas atmospheres enable robust sintering performance.

High strength after sinter hardening

Distaloy DE provides very good hardenability, enabling high strength to be achieved at moderate cooling rates.



**Data shown are typical values reported in MPIF Standard 35-SP for comparison.*

© 2026 Höganäs AB (publ.) 3876HOG. Höganäs® and Distaloy® are registered trademarks of Höganäs AB.