

Distaloy HP

Diffusion and pre-alloyed grade with the highest performance achieved in the as sintered condition, used for most demanding and dynamically loaded applications such as synchronising parts.

Typical data

| Apparent density, g/cm ³ | Flow, sec/50g |
|-------------------------------------|---------------|
| 3.05 | 24 |

Sieve analysis, %

| | |
|----------|----|
| + 250 µm | 0 |
| + 150 µm | 13 |
| - 45 µm | 19 |

Compressibility, g/cm³

| Compacting pressure | Lubricated die | 0.6% Kenolube® | 0.8% Zn-st |
|---------------------|----------------|----------------|------------|
| 400 MPa | 6.58 | 6.63 | 6.70 |
| 600 MPa | 7.08 | 7.09 | 7.11 |
| 800 MPa | 7.36 | 7.31 | 7.30 |

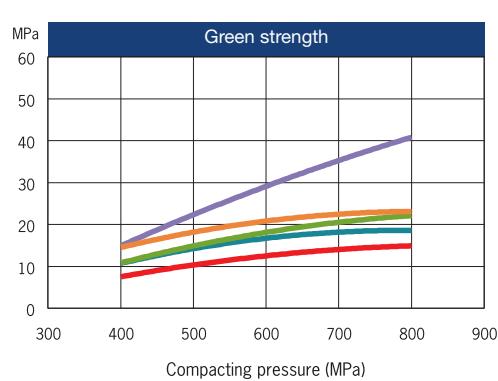
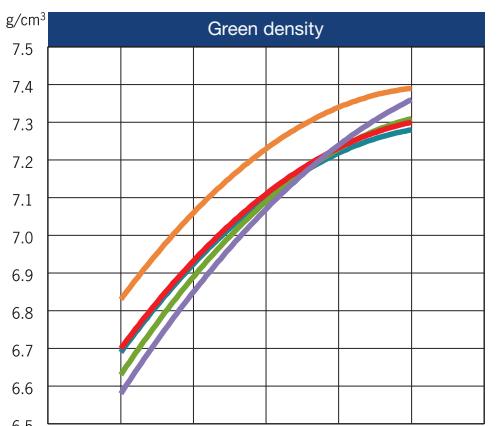
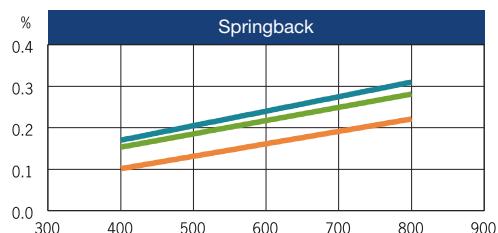
Green strength, MPa

| Compacting pressure | Lubricated die | 0.6% Kenolube | 0.8% Zn-st |
|---------------------|----------------|---------------|------------|
| 400 MPa | 15 | 11 | 8 |
| 600 MPa | 30 | 18 | 13 |
| 800 MPa | 41 | 22 | 15 |

Chemical analysis, %

| | |
|------------|-------|
| Carbon | <0.01 |
| O-tot | 0.08 |
| Copper | 2.00 |
| Nickel | 4.00 |
| Molybdenum | 1.41 |

- 0.8% Amide-wax
- 0.8% Zn-st
- 0.6% Kenolube
- 0.6% Lube + 0.45% Graphite, Warm compaction
- Lubricated tool die



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