JIP Clean Mix HDX

Premixed Iron Powder Enabling High Density Compaction Without Pre-Heating Process

JFE Steel Corporation

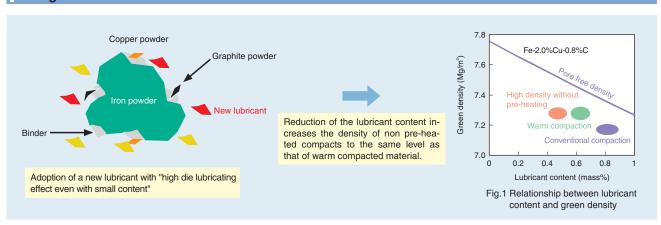
http://www.jfe-steel.co.jp/en/



JIP Clean Mix HDX

Effective for production of high density products and large-scale parts.

Design of Clean Mix HDX



Features

1 High density without pre-heating.

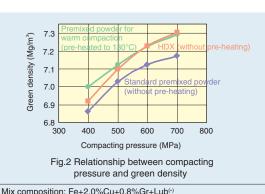
Achieves green densities comparable to those of a conventional segregation-free powder pre-heated and compacted at 130°C (Fig. 2).

2 Reduction of compacting pressure.

Realizes the same green densities as those of a standard premixed powder compacted at higher compaction pressures (Fig. 2).

- → Possible to prolong die life by reducting the compaction pressure.
- → Possible to compact large-scale parts using small press.
- 3 Improved dewaxing property.

Eliminates surface stains on sintered parts.



Mix composition: Fe+2.0%CU+0.8%Gir+Lub⁽¹⁾

(+) Standard premixed powder: 0.8% zinc stearate Iron powder for warm compaction: 0.6% heat-resistance lubricant JIP HDX: 0.5% new lubricant

Applicable Automobile Parts

