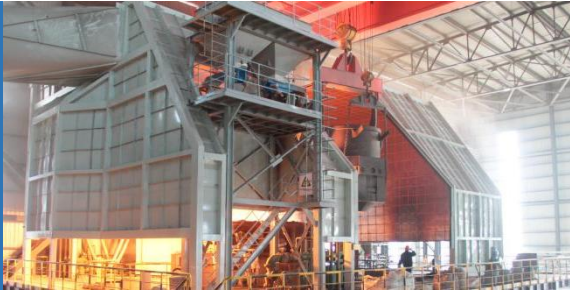


# LY POWDER



## LAP100.29D2



APPLICATION

LAP100.29D2 is suitable for production of high hardenability and high strength parts.

SPECIFICATION`

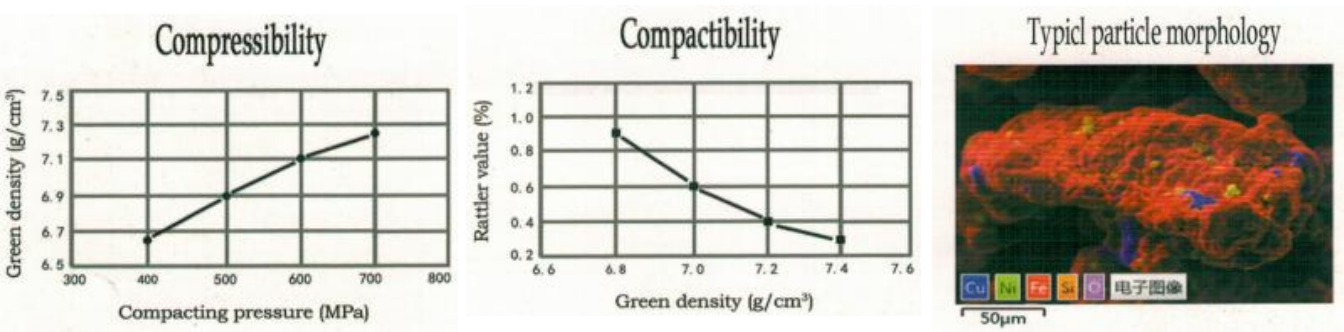
| Chemical Properties (%) | Unit | Specification |       |
|-------------------------|------|---------------|-------|
|                         |      | Min           | Max   |
| C                       | %    |               | 0.015 |
| Si                      | %    |               | 0.05  |
| Mn                      | %    |               | 0.15  |
| P                       | %    |               | 0.015 |
| S                       | %    |               | 0.015 |
| Ni                      | %    | 3.80          | 4.20  |
| Mo                      | %    | 0.50          | 0.70  |
| Cu                      | %    | 1.60          | 1.90  |
| HL                      | %    |               | 0.15  |

Physical Properties

|                      |       |      |       |
|----------------------|-------|------|-------|
| Apparent density     | g/cm3 | 3.00 | 3.30  |
| Flow rate            | s/50g |      | 30.00 |
| Green density 490Mpa | g/cm3 | 7.06 |       |

Particle size distribution (%)

|           |   |    |    |
|-----------|---|----|----|
| 180-212um | % |    | 1  |
| 150-180um | % |    | 10 |
| 45-150um  | % |    |    |
| -45um     | % | 10 | 30 |



PROPERTIES

LAP100.29D2+0.3%C+0.6%Zn-st, condition: temperature1120℃, sintering time 30min.

| Product name | Sintered density(g/cm³) | Tensity strength(MPa) | Impact energy(J) | Rockwell hardness(HRB) | Elongation(%) |
|--------------|-------------------------|-----------------------|------------------|------------------------|---------------|
| LAP100. 29D2 | 6. 80                   | 438                   | 17               | 70                     | 1. 98         |
|              | 7. 00                   | 490                   | 21               | 92                     | 2. 30         |