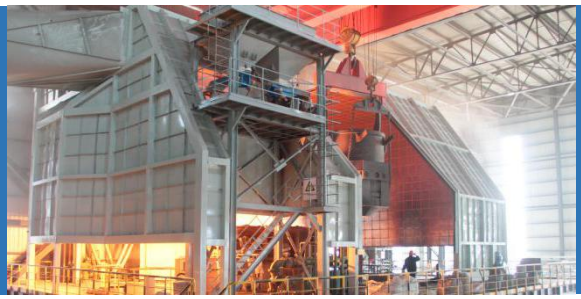
LW POWDER

LWPM



LAP100.29A1









LWPM Co.,Ltd.

Qingpu district, Shanghai, China 201700

Tel: +86-021 3137 2762 Fax: +86-021 3137 2761

Email: info@lwpowder.com

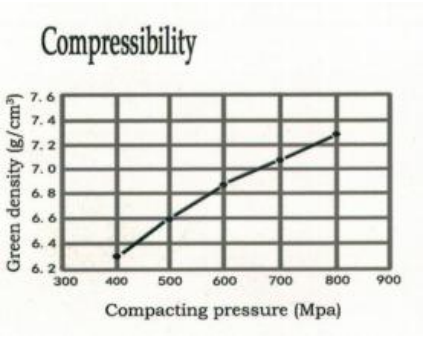
www.lwpowder.com

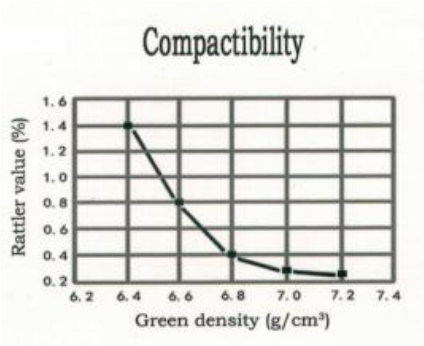
APPLICATION

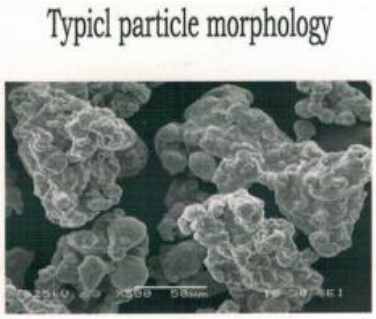
LAP100.29A1 is mainly used for production of forging parts and high strength sintered parts.

SPECIFICATION

Chemical Properties（%）	Unit	Specification	
		Min	Max
C	%		0.01
Si	%		0.05
Mn	%		0.15
P	%		0.020
S	%		0.015
Ni	%	1.70	2.00
Mo	%	0.40	0.60
HL	%		0.20
Physical Properties			
Apparent density	g/cm3	2.90	3.15
Flow rate	s/50g		28.00
Green density 600Mpa	g/cm3	6.90	
Particle size distribution（%）			
180-212um	%		1
150-180um	%		10
45-150um	%		
-45um	%	10	30







PROPERTIES

LAP100.29A1+0.80%C +0.80%Zn-st, condition: temperature1125℃, sintering time 30min.

Product name	Sintered density(g/cm³)	Tensity strength(MPa)	Impact energy(J)	Brinell hardness(HB)	Elongation(%)
LAP100. 29A1	6. 80	390	13	160	1. 7
	7. 00	430	17	180	2. 0

LWPM Co.,Ltd.

Qingpu district, Shanghai, China 201700

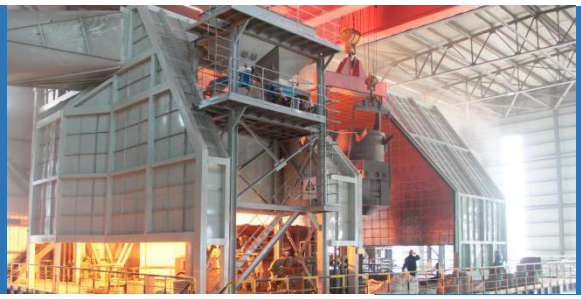
Tel: +86-021 3137 2762 Fax: +86-021 3137 2761

Email: info@lwpowder.com

www.lwpowder.com

LW POWDER

LWPM



LAP100.29A2









LWPM Co.,Ltd.

Qingpu district, Shanghai, China 201700

Tel: +86-021 3137 2762 Fax: +86-021 3137 2761

Email: info@lwpowder.com

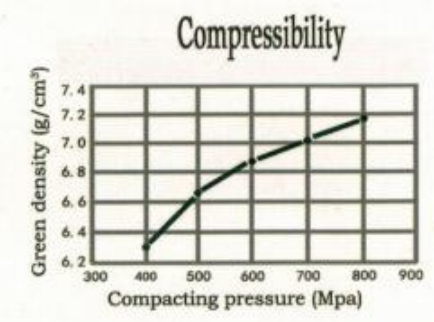
www.lwpowder.com

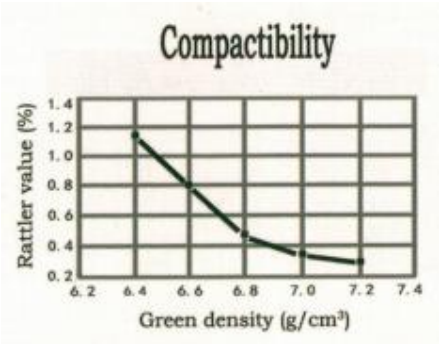
APPLICATION

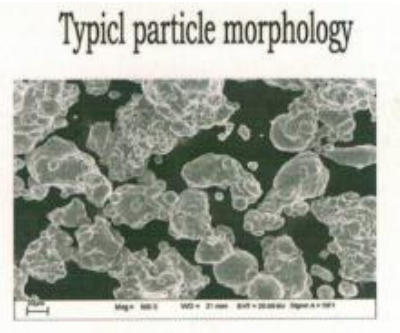
LAP100.29A2 is mainly used for production of high strength sintered machine parts,wear resistant parts,corrosion resistant in bad working environment sintered parts,e.g.valve seats.

SPECIFICATION`

Chemical Properties（%）	Unit	Specification	
		Min	Max
C	%		0.01
Si	%		0.05
Mn	%	0.20	0.50
P	%		0.020
S	%		0.015
Cr	%	0.10	0.30
Ni	%	0.50	0.90
Mo	%	0.35	0.65
Co	%	0.30	0.50
Cu	%		0.50
HL	%		0.25
Physical Properties			
Apparent density	g/cm3	2.90	3.15
Flow rate	s/50g		28.00
Green density 600Mpa	g/cm3	6.85	
Particle size distribution（%）			
180-212um	%		1
150-180um	%		10
45-150um	%		
-45um	%	10	30







PROPERTIES

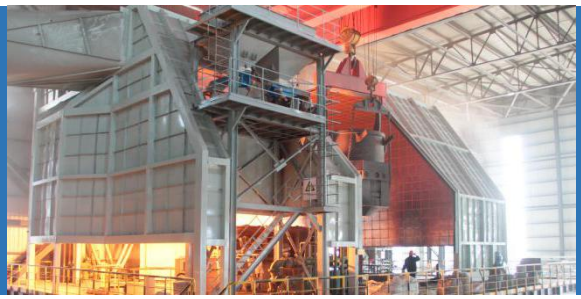
LAP100.29A2+0.5%C+0.8%Zn-st, condition: temperature 1125℃, sintering time 30min.

Product name	Sintered density(g/cm³)	Tensity strength(MPa)	Impact energy(J)	Brinell hardness(HB)	Elongation(%)
LAP100. 29A₂	6. 80	420	14	160	1. 75
	7. 00	440	20	185	2. 05

LWPM Co.,Ltd.
Qingpu district, Shanghai, China 201700
Tel: +86-021 3137 2762 Fax: +86-021 3137 2761
Email: info@lwpowder.com
www.lwpowder.com

LW POWDER

LWPM



LAP100.29A3









LWPM Co.,Ltd.

Qingpu district, Shanghai, China 201700

Tel: +86-021 3137 2762 Fax: +86-021 3137 2761

Email: info@lwpowder.com

www.lwpowder.com

APPLICATION

LAP100.29A3 is mainly used for production of PM forging parts and high strength sintered machine parts.

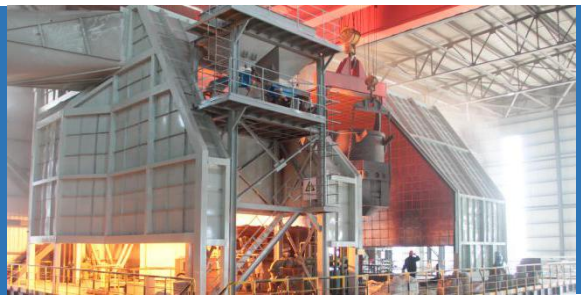
SPECIFICATION`

Chemical Properties（%）	Unit	Specification	
		Min	Max
C	%		0.01
Si	%		0.05
Mn	%		0.15
P	%		0.020
S	%		0.015
Ni	%	3.80	4.20
Mo	%	0.40	0.60
Physical Properties			
Apparent density	g/cm3	2.90	3.15
Flow rate	s/50g		28.00
Green density 490Mpa	g/cm3	6.75	
Particle size distribution（%）			
180-212um	%		1
150-180um	%		10
45-150um	%		
-45um	%	10	30

LWPM Co.,Ltd.
Qingpu district, Shanghai, China 201700
Tel: +86-021 3137 2762 Fax: +86-021 3137 2761
Email: info@lwpowder.com
www.lwpowder.com

LW POWDER

LWPM



LAP100.29A4









LWPM Co.,Ltd.

Qingpu district, Shanghai, China 201700

Tel: +86-021 3137 2762 Fax: +86-021 3137 2761

Email: info@lwpowder.com

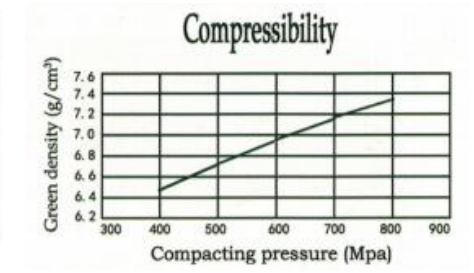
www.lwpowder.com

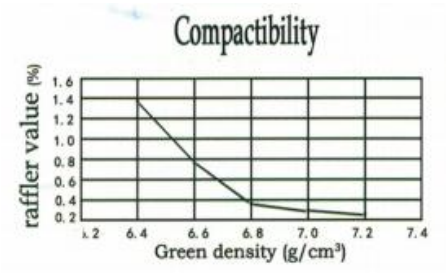
APPLICATION

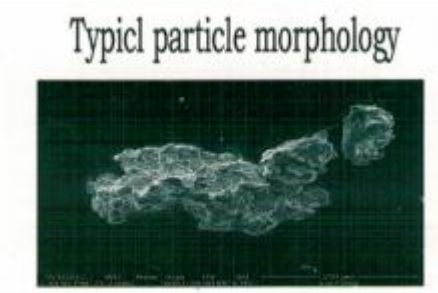
LAP100.29A4 is mainly used for sintered mechanical parts with good hardenability and high strength.

SPECIFICATION`

Chemical Properties（%）	Unit	Specification	
		Min	Max
C	%		0.01
Si	%		0.05
Mn	%	0.35	0.55
P	%		0.020
S	%		0.015
Ni	%	1.30	1.55
Mo	%	1.15	1.40
HL	%		0.25
Physical Properties			
Apparent density	g/cm3	2.90	3.20
Flow rate	s/50g		28.00
Green density 490Mpa	g/cm3	6.65	
Particle size distribution（%）			
180-212um	%		1
150-180um	%		10
45-150um	%		
-45um	%	10	30







PROPERTIES

LAP100.29A4+0.7%C+1.0%Cu							Tempering temperature 205℃ lower
green density(560Mpa)	Density after sintering	Dimensional change	Apparent hardness	Yield strength	Transverse rupture strength	Elongation	Apparent hardness
6.9	6.83	0.20%	33（HRC）	786MPa	1462MPa	1	31（HRC）
green density(700Mpa)	Density after sintering	Dimensional change	Apparent hardness	Yield strength	Transverse rupture strength	Elongation	Apparent hardness
7.05	7.03	0.25%	37（HRC）	924MPa	1669MPa	1.3	35（HRC）

LWPM Co.,Ltd.

Qingpu district, Shanghai, China 201700

Tel: +86-021 3137 2762 Fax: +86-021 3137 2761

Email: info@lwpowder.com

www.lwpowder.com