



## forAM<sup>®</sup> 738LC 15-45 VG

### Advanced nickel superalloy for Additive Manufacturing

**forAM 738LC VG** is a vacuum induction melted, argon gas atomized, and spherical powder for additive manufacturing. The alloy design provides excellent high temperature creep-rupture strength and corrosion resistance up to 980 °C. The strengthening mechanism is a multiple of solid-solution strengthening of the gamma matrix, precipitation hardening by gamma-prime or gamma-double prime phases, grain boundary strengthening with carbides, boron and zirconium.

Typical applications of the forAM 738 are for engine parts of industrial gas turbines, blades, vanes and integral-wheels of gas turbines and jet engine components.

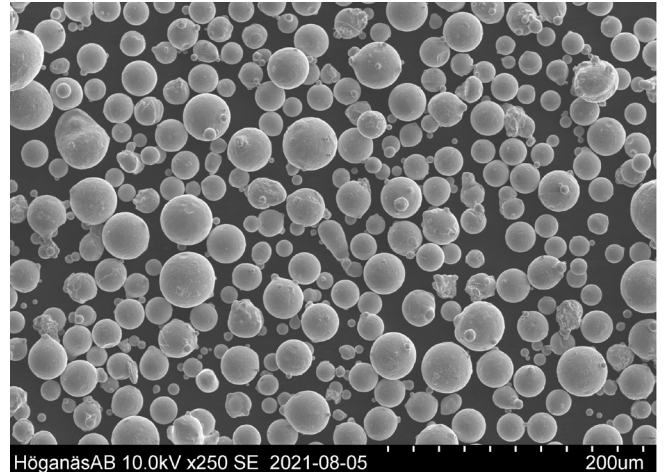
#### Equivalent materials:

» Ni-SA 738LC

**For more information on forAM product line and other of Höganäs products, please contact your local sales representative.**

## Powder properties

Chemical composition, (typical values)	
Element	Content, %
Cr	16
Co	8.5
Al	3.5
Ti	3.4
W	2.6
Mo	1.7
Ta	1.7
Nb	0.9
C	0.1
Zr	< 0.08
B	0.01
Ni	Balance



Typical powder properties		
Nominal particle range	15-45 $\mu\text{m}$ (max 5% over and under size)	MPIF05, ASTM B214, ISO4497
Hall flow	16 s/50 g	MPIF03, ASTM B213, ISO4490
Apparent density	4.1 g/cm <sup>3</sup>	MPIF04, ASTM B212, ISO3923/1

### Standard packaging:

30 kg (6x5 kg, 2.5 L PE bottles packed in cardboard box)

200 kg / 500 kg Flexbag

(Other tailored particle sizes and packaging are available under conditions)