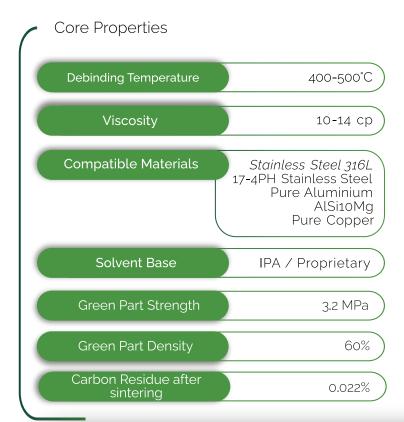


### & SOLVENT BASED

## **UNIVERSAL BINDER**

### Specification Sheet

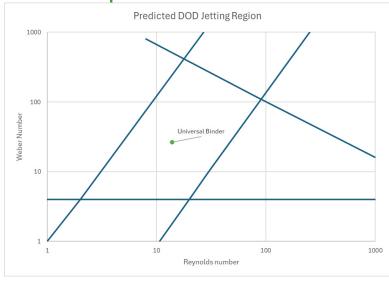


The Atomik Universal Binder is a versatile, material-agnostic formulation designed for compatibility across a wide range of powders and industrial binder jetting applications. Formulated with green principles in mind, it is safe to handle, non-toxic, and cost-effective. Its tunable chemistry allows adaptation to multiple BJP platforms, making it suitable for a variety of machines and processes.

This bespoke formulation balances green part strength, post-processing carbon content, impurity control, and cost-efficiency, offering manufacturers a dependable solution without compromise. With fine-tuned rheological properties, the Atomik Universal Binder is compatible with all commercially available piezoelectric inkjet drop-on demand (DOD) printheads, delivering excellent printability and consistent performance.

Parts printed with Atomik Universal Binder demonstrate strong green strength, allowing immediate removal from the build plate without any thermal furnace curing required. Build failure rates are below 25%, exceeding the performance of typical binders currently on the market

## **Full Properties**



Post-processing is made easier with The Universal Binder - the characteristic burnout profile of the binder allows for reliable sintering every time with all industry standard metal powders, leaving minimal carbon residue, making it suitable for the manufacturing of high grade components.

- Faster turnaround with no thermal or UV cure required.
- Will not damage or degrade print heads with extended use.
- Lower carbon content than competitors, which is important for sectors such as Aerospace.

Curing Regime Not required

Surface Tension

22.03 mN/m

Density

0.812 g/ml



# Test Part: Universal Binder Validation

Challenge piece printed in 17-4PH using Atomik AM's solvent based Universal Binder. Printed by an internationally recognised binder jet printer manufacturing company using an Innovent+ printer.

Part Dimensions: 45mm x 45mm x 10mm



## At·mik

For more information contact: enquiries@atomik-am.com +44 741 537 4905

### About Atomik AM

We develop advanced solutions for the manufacturing industry, enabling smarter, more sustainable production processes. Our innovative technologies help customers improve performance reduce waste and unlock new possibilities

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