

VBN Components pushes back material boundaries and launches the world's toughest stainless steel.

Did we say it's 3D-printed?

Thanks to comprehensive development work supported by the Swedish Energy Agency, VBN Components has developed a new stainless alloy named **Vibenite® 350**, a material combining unprecedented levels of hardness, wear resistance, corrosion resistance and toughness.

Vibenite® 350's micro structure contains 20% chromium, a high level of carbides, and is totally free from cobalt. The 3D-printing melting process results in a wear resistance that suits a variety of applications, e.g. plastic processing tools, pumps and pump houses, bearing and valve rings, as well as all wear parts where corrosion is a problem.



As a recognized leader in the development of metal alloys, VBN Components already has two hard and wear resistant materials in its portfolio; Vibenite® 150 and Vibenite® 280. The new **Vibenite® 350** is our next step, combining good tolerance to corrosion with high hardness and excellent wear resistance - and 3D-printing.

Hard-condition stainless steels are notoriously difficult to machine, so producing stainless components using 3D-printing/AM technology represents a big process improvement. **Vibenite® 350** lets you easily create near-net-shape blanks for any kind of extremely demanding product.

In addition, very high material yield – typically >98% – combined with superior performance and longer product lifetime significantly reduces environmental impact!



Wonder how much paint could be saved if the Eiffel Tower had been stainless? [Demo in Vibenite® 350]

For more information:

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VBN Components in brief

VBN Components AB is an award winning, frontline materials developing company. At it's facilities, VBN manufactures wear resistant components directly from powder, a.k.a. 3D-printing (additive manufacturing, free forming). In several projects, customers have improved their competitiveness of the metal industry by collaborating with VBN Components. VBN provides Near-Net-Shape components branded Vibenite® to clients in need of extreme wear-resistance and high complexity.

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