

Introducing the next generation
of Powder Metallurgical Tool Steel

Uddeholm Vanadis 8 SuperClean

**A PROFITABLE LONG
DISTANCE RUNNER**

**VALUABLE SOLUTIONS
FOR THE FUTURE**



STEEL THAT MAKES A DIFFERENCE

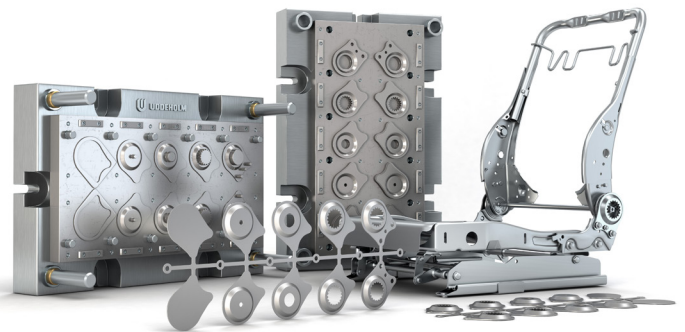
BE FIRST AND BE THE BEST

Uddeholm Vanadis 8 SuperClean sets a new standard for Powder Metallurgical Tool Steel. Technological advances make this cold work tool steel superior to its predecessors. The unprecedented combination of extremely high wear and chipping resistance paired with improved machining properties raises production rates and reduces costs.

NO MORE UNPLANNED STOPPAGE

For optimal tool performance both high wear resistance and chipping resistance are essential. With Uddeholm Vanadis 8 we offer a possibility to keep production running better with higher rates at a lower cost. This marked advance comes from the high ductility and wear resistance that keep your tools strong and in shape much longer. The dimension stability after hardening and tempering is one of the keys to time-saving efficiency. Thanks to the high wear resistance you can also predict

the wear and tear in production and so the unplanned stoppage will become a problem of the past. Be at the forefront – go for powder.



The right choice for better total tooling economy

01 LOWER PRICE PER PRODUCED PART \$



LONGER TOOL LIFE

02

03 PREDICTABLE PRODUCTION



Uddeholm Vanadis 8 SuperClean in short

- Very high abrasive wear resistance
- Very high chipping resistance
- High adhesive wear resistance
- Good machinability



FAST FACTS

Uddeholm Vanadis 8 SuperClean is a Chromium-Molybdenum alloyed steel.

Typical analysis %

C	Si	Mn	Cr	Mo	V
2.3	0.4	0.4	4.8	3.6	8.0

Maximum hardness: 62–64 HRC

SMALL GRAINS WITH BIG IMPACT

CLEANER STEEL FOR STRONGER TOOLS

When choosing powder metallurgical cold work tool steels from Uddeholm you know what you will get and you get it right from the start.

REACHING FOR THE TOP

From innovation to testing, our driving force is always to enhance your competitiveness. The cutting-edge research and development behind all our tool steel solutions stem from a committed promise to carry our customers to first place. Uddeholm Vanadis 8 is the newest

member in our winning powder metallurgical team. Its combined characteristics of strength, flexibility and endurance make it a profitable performer in many demanding applications, as well as a good substrate for surface coatings when needed. The perfect answer for present and future challenges in the tool making market.



PROPERTY COMPARISON

	Uddeholm Vanadis 8	Uddeholm Vanadis 4 Extra	Uddeholm Vanadis 10
ABRASIVE WEAR RESISTANCE	●	◐	●
ADHESIVE WEAR RESISTANCE	●	◐	◐
DUCTILITY/EDGE CHIPPING RESISTANCE	◐	●	◑
HARDNESS (HRC) MAX.	◐	◐	●
MACHINABILITY	◐	●	◑

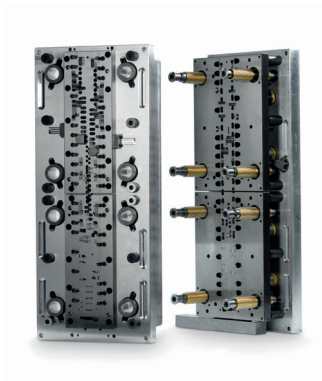
CUSTOMER-DRIVEN DEVELOPMENT

YOUR BENEFICIAL SHORT CUT



BIG SAVINGS WITH HIGHER STABILITY

Uddeholm Vanadis 8 is a guarantee for reliable tool steel and cost-saving tooling. Uddeholm uses third generation powder metallurgy steel manufacturing and that means 50% smaller grains than in earlier generations of powder production. It is cleaner, stronger and more ductile than earlier generations.



STAMINA WITH AN EXTRA GEAR FOR INCREASED PRODUCTION

Uddeholm Vanadis 8 is perfect for very long production series or challenging tool environments. Its unique and pioneering combination of very high abrasive and adhesive wear resistance gives your tools extra life, with a lower risk for chipping and cracked tools. A safe bet that brings reduced maintenance and improved production.



AWARD-WINNING PROBLEM SOLVERS

With pioneering research and development, innovative thinking and deep commitment, Uddeholm offers business-enhancing steel solutions to premium clients all over the world.

What started as a small iron mill in 1668 has now become the world's leading provider of tool steel, with business and operations in 90 countries. Always with the promise to deliver solutions that enhance competitiveness and create added value for our customers.

This information is based on our present state of knowledge and is intended to provide general notes on our products and their uses. It should not therefore be construed as a warranty of specific properties of the products described or a warranty for fitness for a particular purpose. Classified according to EU Directive 1999/45/EC.



SS-EN ISO 9001
SS-EN ISO 14001

Manufacturing solutions for generations to come

SHAPING THE WORLD

Since 1668 we have been providing a wide range of innovative cutting-edge solutions for our customers in demanding segments. Our dedicated employees work in almost ninety countries and together we deliver improved competitiveness to clients worldwide. Welcome to Uddeholm.