



Press Release

17 November 2010

HARDIDE CVD COATING AS HARD CHROME PLATING REPLACEMENT

Paper to be presented at Valve World 2010

Dusseldorf Exhibition Centre, Halls 3-4, Nov 30 – Dec 2 1010

Dr Yuri Zhuk, technical director of Hardide Coatings is to present a paper at Valve World 2010 on Wednesday 1 December on the development of Hardide-A CVD coating as a replacement to hard chrome plating for the flow control industry.

Hard chromium electroplating has long been a trusted industry solution used to extend the life of valves that control the flow of abrasive, erosive and corrosive fluids and gases. However, it is an environmentally unfriendly process that is subject to increasing legislative restrictions in Europe and the United States, which are reducing the availability and increasing the cost of hard chrome.

Hardide-A has been developed and proven as an attractive replacement for hard chrome plating. It matches the standard thickness and hardness of hard chrome and outperforms the material in several key properties including enhanced protection against corrosion, wear and chemically aggressive media. The replacement process is easy as no dimensional changes or drawing re-design is necessary. It is applied by CVD (chemical vapour deposition) which enables the coating of internal surfaces and complex shapes where other coatings such as HVOF, D-gun and PVD cannot be used. No grinding or other expensive finishing operations are required due to the smooth and uniform 'as coated' surface. It is easily applied to a wide range of metals including various grades of stainless steel, tool and alloy steels, nickel, cobalt and copper-based alloys, titanium and stellite.

Dr Zhuk commented: "Hardide-A is a technically comparable and better performing alternative to hard chrome plating. It is a clean and innovative technology that can offer a commercial solution to valve manufacturers and end users. Valve World 2010 is the ideal platform to present the technology to flow control technologists and decision makers from around the world."

Dr Zhuk is presenting his paper at 10.30am on Wednesday, 1 December 2010 at the Materials 1 session.

www.hardide.com

www.valveworldexpo.com

Ends

For further information contact Jackie Robinson, Hardide Coatings. Tel: +44 (0) 1869 353830 or jrobinson@hardide.com

Note to Editors:

Biography: Dr Yuri Zhuk, Technical Director, Hardide plc

Dr Yuri Zhuk is a co-founder of Hardide Coatings Limited and is responsible for the company's patenting, technology and applications development programmes. In 1992, prior to joining Hardide, he co-founded Tetra Consult Ltd., a Moscow-based private technology consultancy company. Yuri has over 18 years experience in international technology commercialisation and transfer; companies for which he has successfully delivered such projects include ICI, GM, Johnson and Johnson, and Samsung. He holds a PhD in plasma Physics and Chemistry from Lomonosov Moscow State University and an MBA from the UK Open University.