



Ultra-Hard Tungsten Carbide Based Coatings



## Hardide Coated Balls and Seats

**Improve the life and operating performance of your valves and reduce costs with Hardide-T, a new generation tungsten carbide-based protective coating which can be tailored to meet your application requirements.**

### ► Benefits

- ▶ Abrasion resistant
- ▶ Reduced torque
- ▶ Impact resistant
- ▶ Corrosion resistant
- ▶ Chemical/H<sub>2</sub>S resistant
- ▶ Enables greater flexibility on valve design
- ▶ Binder free coating gives consistent coating thickness and reduces assembly costs
- ▶ No matching of seats to valve bodies required
- ▶ Can easily be applied to internal surfaces reducing erosion and improving flow
- ▶ Can coat complex shapes uniformly
- ▶ Smooth and uniform 'as coated' finish streamlines finishing operations
- ▶ Proven in independent laboratory test and commercial application

Hardide provides a one-stop service which means that parts are coated and finished in-house giving faster turnaround times, improved quality control and full traceability in line with ISO 9001 and AS 9100. The coating is FDA accepted.

### ► Our customers say:

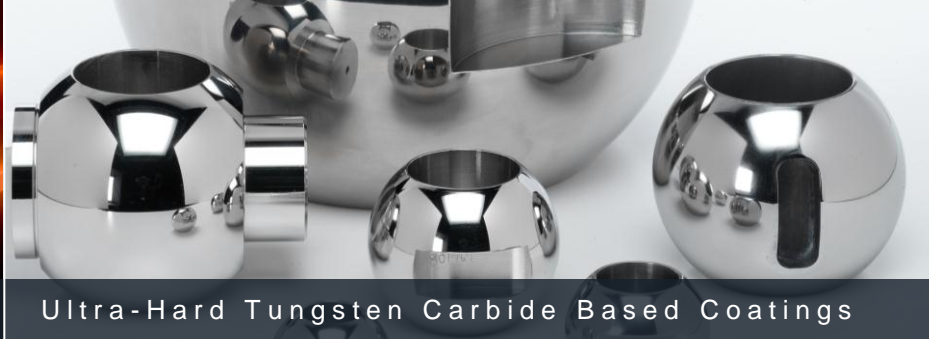
*"Hardide allows a level of design flexibility that we have not found in other coatings. This means that we can easily revise designs and increase component complexity in the knowledge that Hardide can be applied exactly where we want it."*

*"Hardide has proven to give us an exciting advantage in heavily abrasive valve applications. The superior performance of our Hardide-coated ball valves will unlock new markets for us, and we will be testing the coating as an enabling technology for brand new valve designs."*

*"Previously we had hard faced ball valves in extreme topside and downhole environments which were failing within days or a couple of weeks. With the Hardide coating, these same components have been in service for up to two years with no failures or operational problems."*

*"Improve the life of your valves and reduce your costs by using Hardide Coatings"*





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## ► Specifications

COATING TYPE	HARDNESS	TOUGHNESS	THICKNESS
Hardide – T	1100 – 1600 Hv	Excellent	Typically 50 µm

## ► British Valve and Actuator Association



Hardide is a member of the British Valve and Actuator Association (BVAA).

For more information on BVAA visit their website at <http://www.bvaa.org.uk>

### ► Further Information

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