HONEYWELL COATINGS FOR OIL AND GAS
The Oil & Gas industry faces unique challenges to protect drilling tools, production equipment and valves from premature failure due to corrosion, abrasion or erosion.

To avoid such failure, downtime and high maintenance costs associated with these problems, surface treatments such as hard chrome (Cr) applied via electroplating or tungsten carbide (WC) coatings applied by certain types of thermal spray processes such as High Velocity Oxy Fuel (HVOF) are used.

HVOF-WC coatings have high hardness but are expensive, and may be prone to failure due to low-impact resistance. Also, most thermal spray processes are not suitable for non-line of sight (NLOS) applications. On the other hand, hard chrome coatings are less expensive than HVOF-WC but prone to micro-cracks which can initiate corrosion and erosion. In addition to such mechanical property shortcomings, there are increasing environmental concerns regarding the use of chrome plating.

Honeywell is using its long history in electroplating to develop advanced technologies which address the drawbacks of these current solutions. Honeywell, a Fortune-100 company with $40.5 billion in sales, invents and manufactures technologies that address some of the world’s most critical challenges, and we look forward to helping you overcome your toughest coating challenges.

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**High Hardness**
900-1,100 HV

**Excellent Corrosion Resistance**
Passes 1,000 hr salt fog corrosion test

**Low Taber Wear**
<5 mg loss/2,500 cycles

**Low Co-efficient of Friction**
0.32

**Designed for Oil and Gas Applications**
- High hardness and corrosion resistance
- Suitable for Non-Line of Sight (NLOS)
- No environmental concerns

**Backed by Honeywell**
A Fortune-100 company

**Contact**
Advanced Plating
advancedplating@honeywell.com