



IPC SYSTEM 3 - Black

FEP based Teflon thin film coating that is designed to provide excellent chemical and corrosion resistance in a single coat application.

- ➔ FEP Teflon based coating that provides excellent chemical and corrosion resistance for CO₂, H₂S, brine and chlorides.
- ➔ Self-lubricating, non-stick coating.
- ➔ Ideal when desiring minimum coating thickness while simultaneously providing a barrier against corrosion.
- ➔ FDA Compliant.

Specific Advantages:

- ➔ Thin film coating but can be build up to 2.5 mils (0.0025”).
- ➔ No tolerance issues.
- ➔ Cost-effective alternative to multi-layer Systems.
- ➔ A single coat application or multiple coats if required.

PROPERTY	ASTM	UNIT	RATING
Salt Spray Resistance	B-117	Hours	1000+
Maximum Use Temp	Continuous	Degrees F/C	400/205
Coefficient of Friction	D1894	static	0.12- 0.20
Coefficient of Friction	D1894	kinetic	0.08- 0.30
Hardness	D2240	Shore D	56
Tensile Strength	D638	MPa	23
Elongation	D638	%	325
Flexural Modulus	D790	MPa	600
Dielectric Strength	D149	V/m	2000
Surface Resistivity	D257	Ω/sq	1.0x10 ¹⁸
Water Absorption	D570	%	<0.01



Successful Applications:

IPC's thin film coatings have been successfully applied to the wetted parts of a wide array of oilfield components which are subject to severely corrosive environments. Components such as valves, fittings, pipe spools, down hole completion tools etc. are some examples of what we can do.

IPC has proven coatings for severe service conditions for various applications (injection wells, brine service, CO₂/H₂S service), in the most corrosive fields in Western Canada- Judy Creek, Brintnell, Pelican Lake, Redwater, the Bakken Play, the Cardium Play, Horn River, Provost, Winter, and Zama.



Proven Solutions. Extreme Performance.

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