



In-Field Flow Coating (IFC)

Optimization of Existing Gas Pipelines

The RPS In-Field Flow Coating (IFC) system is a revolutionary process for applying a flow coating in existing (in-place) gas pipelines that significantly increases pipeline efficiency and performance. RPS utilizes advanced “NANO” technology composite coatings that are unlike any other surface coating technology. Nano coatings utilize small molecular structures that create a covalent and ionic bond with the substrate in a way that is not possible with conventional coatings. The unique nano properties combined with RPS’s expertise in insitu pipeline application result in an ultra-slick, low friction surface providing lower friction loss, increased flow, lower energy consumption and reduced deposition of debris and contaminants. RPS’s In-Field Flow coating can be applied on long pipeline segments, of any diameter, by only accessing the ends of the pipeline.

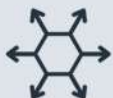
Advantages of IFC



- Improves pipeline efficiency by reducing surface friction of the pipe wall
- Increases pipeline capacity by 20% to 50%
- Excellent for de-rated pipelines to increase flow capacity at decreased pressures
- Increase in EBITA/Profit without increasing CAPEX/OPEX



- Reduces greenhouse gas emissions
- Reduces the buildup of contaminants and black powder on the pipe wall
- Reduces fuel consumption of compressors at same flow



- Can be applied to newly constructed or existing pipelines
- Is not adversely affected by changing pressures or temperatures
- Excellent chemical and temperature resistance
- Not damaged by routine pigging or ILI inspection
- Suitable for all pipeline diameters and segment lengths of 20 miles+
- Works on liquid and refined product lines where DRA is not suitable



Avg. Surface Roughness

Surface	Micro-inches
Steel Pipe, Weathered 30 days	600 - 800
Steel Pipe, Weathered 90 days	1,000 - 1,400
Steel Pipe, 10 years in service	2,000 - 4,000+
Steel Pipe, brush pigged	350 - 500
After In-Field Flow Coating	120 - 200

Contact

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