

## **Press Release 2018**

We have come to realize that 2018 went by really quickly, with us staying low key, quiet, and out of the spotlight. Some people have even begun wondering if we were still around, and if we were, what exactly have we been up to. The simple truth of it is that we were busy. Very busy.

Following the successful opening of our manufacturing facility in Kazan, Republic of Tatarstan, Russian Federation in summer of 2017 (see <https://www.advenira.com/wp-content/uploads/2017/06/Advenira-Press-Release-June-26-2017.pdf>) we focused on transferring the Protective Coatings portion of our portfolio there. As a direct result we acquired a lot of new customers from Oil and Gas industry, each with their unique parts and requirements. While the parts, materials, and coating films differed from each other, one thing remained common – we provided our customers with the level of expertise, support, dedication and creativity they have rightfully come to expect from Advenira. We went all the way from initial problem description to validated field testing, adoption, and commercialization of our protective coatings. Some of the field testing results are cited below. They speak for themselves, and show clearly why more and more companies chose to have their parts coated with Advenira's SDN™ coatings:

- Industrial ball valve seats were coated and built into ball valve assemblies. They subsequently underwent five (5) pressure-testing cycles over a period of three (3) months with no signs of corrosion observed. For comparison, uncoated parts corrode rapidly which results in significantly lower uptime, and much higher preventive maintenance cost.
- Multi-phase pump shafts were coated and installed in a multi-phase pump. They were subsequently tested for well over 11000 operational hours over a period of 18+ months, and showed no signs of premature corrosion and wear that are common to uncoated parts.
- Advenira SDN™ coatings are being used as corrosion protection coatings for pipes
- Advenira SDN™ coatings are in advanced stages of testing as internal smooth (friction reduction) coating with excellent barrier properties

With TAT-Advenira focused firmly on Protective Coatings for Oil and Gas, Advenira's Sunnyvale Headquarters were able to devote the required time and energy to Optical Coatings for the Automotive market. We modeled, coated, tested, and analyzed virtually every possible type of glass (e.g. Solar Green, Green, Clear) and laminated glass structure. We have amassed a wealth of knowledge, know-how, and expertise, and can finally share some very impressive results that were confirmed and validated independently by top automotive OEMs and glass manufacturing companies:

- Advenira SDN™ coatings by far outperformed commercially available IR cut laminated glass product:

- Glass temperature was 10°-15°C lower (IR lamp test)
- Through the glass ambient air temperature was over 5°C lower (IR lamp test)
- TTS (Total Solar Transmittance 300-2500nm) was more than 6% lower
- Advenira SDN™ coatings are fully and truly RF-transparent:
  - Crucial for cell phone reception inside the vehicle
  - Enables automotive OEMs and aftermarket segment to place sensors and other equipment inside the vehicle