



**TS-NANO**

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## **TSN-20™**

TS-Nano Inc. offers its innovative sealant TSN-20™ which is a nano-modified polymer sealant that has superior flowability, very low viscosity, excellent bond strength to steel and rock, is very ductile, is thermally stable, and resists harsh downhole conditions. TSN-20™ is designed for sealing oil and gas wellbores, especially those with microcracks with sizes below 30 micrometers. These cracks become leakage pathways and can be problematic for the long-term containment of methane and other gases. Thus, TSN-20™ is the best solution to limit greenhouse gas emissions including methane, one of the greatest environmental challenges to be addressed for fighting climate change in the next decade. TSN-20™ sealant has excellent bond strength and superior fatigue resistance to debonding under stress cycles compared to microfine cement and other sealants. TSN-20™ is durable against different exposure conditions (e.g., brine, hydrochloric acid, and crude oil) and can seal and repair oil and gas wells for operational temperatures up to 120 °C. TS-Nano Inc. an ESG company in the US, has developed, patented, and is producing TSN-20™.