

# TenCoat™ 5000

## Internal Pipe Coating

TenCoat™ 5000 internal pipe coating is a thermosetting epoxy powder coating to be used inside steel pipes. It is typically applied over a phenolic primer, due to its superior adhesion as this improves the performance of the coating system.

TenCoat™ 5000 presents excellent performance for sweet oil and gas production, hydrocarbons and liquid solutions, maintaining its flexibility and corrosion protection properties.

GENERAL CHARACTERISTICS	
COLOR	Tan
APPLIED THICKNESS	300–500 µm
PRIMER	Phenolic primer, Thickness: 12.5–40 µm
USE TEMPERATURE	Up to 120°C
PRIMARY APPLICATIONS	Production tubing, injection tubing, flowlines, pipelines
PRIMARY SERVICES	Oil, natural gas, fresh water, salt water, injection/disposal water, CO <sub>2</sub> Injection, WAG
BENEFITS	Excellent adhesion, flexibility, hydraulic efficiency

AUTOCLAVE PERFORMED TEST *				
TEMPERATURE	PRESSURE (PSI)	TEST CONDITIONS	DURATION	RESULTS
149°C (300°F)	5,000	10% CO <sub>2</sub> , 90% CH <sub>4</sub> , Hydrocarbons, Tap water	16 hours	Pass
149°C (300°F)	6,500	27% CO <sub>2</sub> , 73% CH <sub>4</sub> , Hydrocarbons, 5% Brine	16 hours	Pass
107°C (225°F)	4,000	Alternating 3X (WAG), 5% brine (H <sub>2</sub> S-saturated), 100% CO <sub>2</sub>	6 hours	Pass
66°C (150°F)	2,000	3% CO <sub>2</sub> , 97% CH <sub>4</sub> , 5% brine (H <sub>2</sub> S-saturated), Rocker arm test	28 days	Pass
95°C (203°F)	3,000	Gas phase: N <sub>2</sub> . Liquid phase: Treated sea water	24 hours	Pass
95°C (203°F)	3,000	Gas phase: 3% CO <sub>2</sub> , 3% H <sub>2</sub> S, 94% CH <sub>4</sub> . Liquid phase: Formation water brine	24 hours	Pass
95°C (203°F)	3,000	Gas phase: CO <sub>2</sub> . Liquid phase: Wasia water	24 hours	Pass
50°C (122°F)	Covered Vented Container	10% Vol. HCl	24 hours	Pass

\* These tests results are based on laboratory simulations of field conditions and should serve only as a general guide. Test results may not accurately predict field performance.



For additional information, please visit  
[www.tenaris.com](http://www.tenaris.com)

Or contact  
[CoatingTechnology@tenaris.com](mailto:CoatingTechnology@tenaris.com)



Tenaris has produced this flyer for general information only. While every effort has been made to ensure the accuracy of the information contained within this publication, Tenaris does not assume any responsibility or liability for any loss, damage, injury resulting from the use of information and data herein. Tenaris products and services are only subject to the Company's standard Terms and Conditions or otherwise to the terms resulting from the respective contracts of sale, services or license, as the case may be. The information in this publication is subject to change or modification without notice. For more complete information please contact a Tenaris's representative or visit our website at [www.tenaris.com](http://www.tenaris.com). Version 02 / September 2016. ©Tenaris 2016. All rights reserved.