ISO 19277:2018 (E)

Petroleum, petrochemical and natural gas industries — Qualification testing and acceptance criteria for protective coating systems under insulation

Contents

	Fo	reword	
	10	Toleword	
	Int	Introduction	
1	90	Saana	
•	30	Scope	
2	No	Normative references	
•	T	and definitions	
3 Terms and de		ms and definitions	
4 Performance testing design		rformance testing design	
	4.1	Relationship between artificial testing and natural exposure	
	4.2	Laboratory tests	
	4.3	Additional laboratory tests	
5	cu	I classification environments	
6 Test samples		st samples	
	6.1	•	
	6.2	Test panels Steel substrates	
	6.3	Sampling of coatings	
	6.4	Number of test panels	
	6.5	Coating systems	
	6.5.1	Coating application	
	6.5.2	Dry film thickness	
	6.5.3	Overcoating interval	
	6.5.4	Conditioning	
	6.5.5	Heat conditioning	
	6.6	Scribe	
	6.7	Reference system	
7	Tes	Test procedures and assessment	
	7.1	Assessment and acceptance	
	7.2	Assessment of adhesion and artificial ageing	
	7.2.1	Adhesion testing before artificial ageing	
	7.2.2	Artificial ageing	
	7.2.3	Adhesion testing after artificial ageing	
	7.3	Thermal cycling test	
	7.4	Multi-phase CUI cyclic corrosion test	
	7.4.1	Description of test	
	7.4.2	Test equipment-apparatus	
	7.4.3 7.4.4	Test set-up and preparation Test procedure	
	7.4.4 7.4.5	Acceptance	
8		tional tests	
	8.1	Optional cryogenic cycling testing	
	8.1.1	General	
	8.1.2	Cryogenic test	
	8.1.3	Adhesion testing after cryogenic test aging	
	8.2	Optional vertical pipe test	
	8.2.1	Application	
	8.2.2	Description of test	

Test equipment — Apparatus Test process scope Temperature profile calibration Test equipment — Procedure Additional performance tests	
Test report	
(informative) Corrosion testing of conditioned and heat conditioned test samples	
(informative) Example of test report for CUI coating acceptance	
(informative) Example of test report for cryogenic testing	
(informative) Example of test report for optional vertical pipe test	

Page count: 27