

ISO 10427-3:2003-04 (E)

Petroleum and natural gas industries - Equipment for well cementing - Part 3: Performance testing of cementing float equipment

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Functions of cementing float equipment	1
3	Float equipment performance criteria	2
3.1	General	2
3.2	Durability under downhole conditions	2
3.3	Differential pressure capability from below	2
3.4	Ability to withstand force exerted through cementing plugs from above	2
3.5	Drillability of the equipment	2
3.6	Ability to pass lost circulation materials	2
3.7	Flow coefficient of the valve	2
3.8	Reverse-flow resistance of casing fill-up valves	2
4	Apparatus and materials	3
4.1	Flow loop	3
4.2	Circulating test fluid	4
4.3	High-temperature/high-pressure test cell	5
5	Durability test	7
5.1	Test set-up	7
5.2	Test categories	7
5.3	Procedure	8
6	Static high-temperature/high-pressure test	8
6.1	Test categories	8
6.2	Procedure	9
7	Test results	9
Annex A (informative)	Results of performance tests on cementing float equipment	10
Bibliography		11