



# Accreditation Scope

ADNOC Central Laboratories, NAL 237  
Testing Laboratory, (ISO/IEC 17025:2017)

ADNOC Research and Innovation Center Building, Sas Al Nakhl, Abu Dhabi, United Arab Emirates

Issue Date: 17/06/2025  
Issue No: 1

Expiry Date: 16/06/2028

Testing Field	Materials/ Products Tested	Type of test/ Test parameter/ Properties measured/Range of measurement	Test Method (Standard, Internal Procedure, Technique)	Permanent lab (P) / Client-site (S)
Physical	Production chemicals	Density and Relative Density	ACL/PCL/STP/01 Rev 5 Issue 0 dated 25 May 2022 and ASTM D4052:22 using Digital Density meter	P/ PCL
Physical	Production chemicals	Density	ACL/PCL/STP/02 Rev 5 Issue 0 dated 8 March 2024 and ISO 12185:2024 using Digital Density meter	P/ PCL
Physical	Production chemicals	Dynamic and Kinematic Viscosity	ACL/PCL/STP/04 Rev 0 Issue 1 dated 22 February 2024 and ASTM D7042- 21a using Stabinger Viscometer	P/ PCL
Physical	Production chemicals	Miscibility	ACL/PCL/STP/05 Rev 5 Issue 0 dated 3 April 2024 and ASTM D1722- 09(2017)	P/ PCL

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Physical	Production chemicals	Color	ACL/PCL/STP/18 Rev 3 Issue 0 dated 27 May 2024 and ASTM D6045-20 by Automatic transmission method	P/ PCL
Chemical	Oil based production chemicals	Flash Point	ACL/PCL/STP/03 Rev 1 Issue 1 dated 1 May 2024 and ASTM D7094:23 using modified continuously closed cup(MCCCFP)	P/ PCL
Chemical	Water based production chemicals	pH	ACL/PCL/STP/06 Rev 0 Issue 1 dated 8 March 2024 based on ASTM E70:24 using pH meter	P/ PCL
Chemical	Tri-Ethylene Glycol	Water Content	ACL/PCL/STP/10 Rev 5 Issue 0 dated 5 April 2024 based on ASTM E1064:24 using KF titration	P/ PCL
Chemical	Oilfield water	pH	ACL/CHL/STP/03 Rev 0 Issue 0 dated 15 May 2023 and ISO 10523:2008 using pH meter	P/ CHL

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Physical	Oilfield water	Density and Specific Gravity	ACL/CHL/STP/04 Rev 1 Issue 0 dated 1 September 2024 based on ISO 12185:2024 using Digital Density meter	P/ CHL
Chemical	Oilfield water	Electrical Conductivity and Resistivity	ACL/CHL/STP/05 Rev 1 Issue 0 dated 1 October 2024 based on ASTM D1125-23	P/ CHL
Chemical	Water, waste water and brines: NaCl, CaCl <sub>2</sub> , CaBr <sub>2</sub>	Turbidity	ACL/DFL/STP/34 Rev 2 Issue 1 dated 12 September 2024 based on APHA Standard method 2130 Method B, 24th edition, 2023 using Turbidity meter	P/ DFL
Chemical	Water, waste water, brines, alkaline solution, acid solution	pH	ACL/DFL/STP/24 Rev 4 Issue 0 dated 11 December 2023 and BS EN ISO 10523:2012 using pH meter	P/ DFL

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Chemical	Water, waste water and calcium chloride brine	Total Iron	ACL/DFL/STP/18 Rev 3 Issue 1 dated 02 October 2024 based on HACH Method 8008 Edition 9 01/2014(Ferrover method)	P/ DFL
Physical	Solid additives	Density	ACL/DFL/STP/11 Rev 1 Issue 1 dated 11 December 2023 and ASTM B923-22 using gas pycnometer	P/ DFL
Physical	Liquid additives	Density	ACL/DFL/STP/30-B Rev 5 Issue 0 dated 9 July 2024 based on ISO 12185:2024 using Digital Density meter	P/ DFL
Chemical	Water, wastewater, seawater and salt powders(NaCl, KCl and any water soluble salt which is clear and colorless)	Sulfate Ion	ACL/DFL/STP/33 Rev 1 Issue 1 dated 11 December 2023 based on HACH Method 8051(2019), EPA 375.4 and ASTM D516 (12/1/2022)	P/ DFL

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Chemical	Potassium Chloride	Chloride	ACL/DFL/STP/26-A Rev 4 Issue 1 dated 17 June 2024 based on APHA Standard method 4500-Cl, Method D, 24th edition, 2023	P/ DFL
Chemical	Mineral materials like: NaCl Salt, CaCl <sub>2</sub> Salt, KCl Salt, Bentonite, Barite etc, Organic materials like Starch, Biopolymer etc.	Moisture content	ACL/DFL/STP/19-A Rev 0 Issue 1 dated 03 June 2024 based on BS 7319-2(1990) and BS EN ISO 1666(1998)- by oven	P/ DFL
Chemical	Mineral materials like: NaCl Salt, CaCl <sub>2</sub> Salt, KCl Salt, Bentonite, Barite etc, Organic materials like Starch, Biopolymer etc.	Moisture content	ACL/DFL/STP/19-B Rev 1 Issue 1 dated 05 June 2024 and ASTM D7404 (11/1/2019)- by moisture balance	P/ DFL

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Chemical	Slurries and Polymer solutions like PHPA	Solids Content	ACL/DFL/STP/29 Rev 1 Issue 1 dated 09 July 2024 and ASTM D7404 (11/1/2019)- by Moisture Analyzer	P/ DFL
Chemical	Barite	Water Soluble Earth Alkaline Metals as Calcium	ACL/DFL/STP/36 Rev 1 Issue 1 dated 05 December 2024 based on API SPEC 13A 19th Edition (Oct 2019 ERRATA Feb 2024), Section 7.5 to 7.7	P/ DFL
Chemical	Barite	Water Soluble Earth Alkaline Metals	ACL/DFL/STP/36-B Rev 0 Issue 0 dated 15 February 2022 and API SPEC 13A 19th Edition (Oct 2019 ERRATA Fed 2024)- by Copper ISE	P/ DFL
Chemical	Sodium chloride salt	Calcium and Magnesium content	ACL/DFL/STP/49 Rev 2 Issue 0 dated 25 September 2024 and ISO 6058(1984) and BS 7319-5(1990/R2017) - Manual titration with indicator	P/ DFL

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Chemical	Lime(Calcium Hydroxide)	Purity	ACL/DFL/STP/17 Rev 0 Issue 1 dated 20 May 2022 based on ASTM C25(2024) Section 28- Manual Titration with color indicator	P/ DFL
Chemical	Sodium bicarbonate	Purity	ACL/DFL/STP/28 Rev 5 Issue 0 dated 20 May 2022 based on USP39 NF 34: Sodium bicarbonate monograph- Manual Titration with color indicator	P/ DFL
Chemical	Sodium chloride salt	Purity	ACL/DFL/STP/48 Rev 1 Issue 0 dated 05 June 2024 and APHA Standard method 4500-Cl Method D 24th edition, 2023 and Metrohm AB-130/4- Potentiometric titration	P/ DFL

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Physical	Bentonite, Polymers, WBM, OBM, Viscous Brines	Rheology and Filtration test	ACL/DFL/STP/1 Rev 1 Issue 1 dated 05 December 2023 based on API13A 19th edition (Oct 2019- ERRATA Feb 2024), Sec 9.1 to 9.6	P/ DFL
Physical	Powder Aggregates (ex. Calcium Carbonate)	Particle size distribution	ACL/DFL/STP/23 Rev 1 Issue 1 dated 11 December 2023 and ASTM B822 (10/1/2020)- by light scattering	P/ DFL
Petroleum and related technologies	Barite and Bentonite	Residue of Diameter Greater than 75 µm	ACL/DFL/STP/37 Rev 1 Issue 1 dated 09 July 2024 based on API SPEC 13A 19th Edition (October 2019 ERRATA Feb 2024), Sections 7.8 -7.10 and 9.7-9.9	P/ DFL
Petroleum and related technologies	Oilfield Cementing fluids	Well-simulation Thickening Time	ACL/CL/STP/07 Rev 5 Issue 0 dated 23 Feb 2024 and API RP 10B-2, Section 9, July 2024	P/ CL

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Petroleum and related technologies	Oilfield Cementing fluids	Slurry Density	ACL/CL/STP/02 Rev 0 Issue 1 dated 27 Sep 2023 and API RP 10B-2, Section 6, July 2024	P/ CL
Petroleum and related technologies	Oilfield Cementing fluids	Well-simulation Compressive Strength	ACL/CL/STP/09 Rev 4 Issue 0 dated 6 Apr 2023 and API RP 10B-2, Section 7, July 2024	P/ CL
Petroleum and related technologies	Oilfield Cementing fluids	Non-destructive Sonic Determination of Compressive Strength of Cement	ACL/CL/STP/10 Rev 4 Issue 0 dated 12 Apr 2023 and API RP 10B-2, Section 8, July 2024	P/ CL
Petroleum and related technologies	Oilfield Cementing fluids	Rheological Properties and Gel Strength	ACL/CL/STP/03 Rev 5 Issue 0 dated 22 Dec 2022 and API RP 10B-2, Section 11, July 2024 (R 2019)- using Rotational Viscometer	P/ CL
Petroleum and related technologies	Oilfield Cementing fluids	Free-fluid test with Static Period at Ambient Temperature	ACL/CL/STP/04 Rev 5 Issue 0 dated 15 Dec 2023 and API RP 10B-2, Section 12.4, July 2024	P/ CL

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Petroleum and related technologies	Oilfield Cementing fluids	Fluid loss test	ACL/CL/STP/06 Rev 4 Issue 0 dated 30 Jan 2023 and API RP 10B-2, Section 10.4, July 2024	P/ CL
Petroleum and related technologies	Oilfield Cementing fluids	Expansion test	ACL/CL/STP/15 Rev 4 Issue 0 dated 1 Sep 2024 and API RP 10B-5, April 2005 (R 2020)	P/ CL
Petroleum and related technologies	Oilfield Cementing fluids	Sedimentation test	ACL/CL/STP/08 Rev 4 Issue 0 dated 1 Sep 2023 and API RP 10B-2, Section 12.5, July 2024	P/ CL
Petroleum and related technologies	Oilfield Cementing fluids	Static Gel Strength of Cement Formulations	ACL/CL/STP/12-A Rev 5 Issue 0 dated 16 Apr 2024 and API RP10B-6, April 2010 (R 2019)	P/ CL
<b>END</b>				

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