

Test Solutions for Drilling Fluid Testing

Price List

April 2007

(Prices will be valid until 31st March 2008)



To Order:

By Post to: Refer Scientific, Hareburn Terrace, Blackdog, Aberdeen, UK, AB23 8BE

By Telephone: (+44) 1224 825394

By Fax: (+44) 1224 706324

By Email: info@referscientific.co.uk


For MSDS's visit: www.referscientific.co.uk

Tel: +44 1224 825394
Email: info@referscientific.co.uk

All prices in £'s (vat extra @ 17.5%)

April 2007

	Stock Code	Pack	£
AMMONIA BUFFER (Total Hardness Buffer) (Versenate Hardness Buffer) (NH ₄ OH) Corrosive Class 8 UN No. 2672	T/01101.121	60ml	4.70
	T/01101.232	250ml	8.00
	T/01101.565	500ml	14.80
	T/01101.701	1lt	23.65
	T/01101.850	2.5lt	56.25
BARIUM CHLORIDE 10% Solution (BaCl ₂) Toxic Class 6.1 UN No. 3287	T/02166.121	60ml	8.60
	T/02166.232	250ml	14.80
	T/02166.565	500ml	24.10
	T/02166.701	1lt	28.00
	T/02166.850	2.5lt	40.60
BENZALKONIUM CHLORIDE 1%	T/18501.232	250ml	7.60
	T/18501.565	500ml	13.60
	T/18501.701	1lt	25.80
BORIC ACID 2% Solution	T/02198.232	250ml	11.30
	T/02198.565	500ml	18.20
	T/02198.701	1lt	33.30
BROMINE WATER (2.5%) Corrosive Class 8 UN No. 1744	T/02202.232	250ml	12.30
	T/02202.565	500ml	22.40
	T/02202.701	1lt	26.60
	T/02202.850	2.5lt	36.85
BROMOCRESOL GREEN Indicator	T/02210.121	60ml	5.40
	T/02210.232	250ml	13.40
	T/02210.565	500ml	24.10
	T/02210.701	1lt	39.60
	T/02210.850	2.5lt	94.00
	T/02210.900	5Lt	149.50
BROMOCRESOL GREEN/ METHYL RED Indicator	T/02215.121	60ml	6.25
	T/02215.232	250ml	14.80
	T/02215.565	500ml	23.00
BROMOPHENOL BLUE Indicator (Potassium Indicator Solution)	T/02375.121	60ml	5.90
	T/02375.232	250ml	14.80
	T/02375.565	500ml	26.00
BROMOTHYMOL BLUE Indicator	T/02450.121	60ml	6.90
CALCIUM BROMIDE BRINE	T/03210.701	1lt	17.70
	T/03210.850	2.5lt	44.20
	T/03210.900	5Lt	58.10
CALCIUM CARBIDE	P/22302.293	1kg	33.75
	P/22302.365	5kg	100.00

	Stock Code	Pack	£
CALMAGITE Solution (Calcium Indicator)	T/03117.121	60ml	10.60
	T/03117.232	250ml	12.70
	T/03117.565	500ml	13.10
	T/03117.701	1lt	27.90
	T/03117.850	2.5lt	64.40
	T/03117.900	5Lt	87.90
CALVER II Powder	T/03144.444	10g	17.20
	T/03144.655	100g	40.50
CITRIC ACID 2.0 Molar Solution	T/03190.121	60ml	5.90
	T/03190.232	250ml	15.10
	T/03190.565	500ml	29.70
	T/03190.701	1lt	58.80
CRESOL RED Indicator	T/03406.121	60ml	10.60
	T/03406.232	250ml	19.20
	T/03406.565	500ml	34.10
	T/03406.701	1lt	60.60
	T/03406.850	2.5lt	117.20
EDTA 0.001M Solution (Hardness Titrating Solution 2EPM)	T/05090.121	60ml	5.40
	T/05090.232	250ml	8.10
	T/05090.565	500ml	12.40
	T/05090.701	1lt	16.50
	T/05090.850	2.5lt	38.30
	T/05090.900	5Lt	72.60
EDTA 0.01M Solution (Hardness Titrating Solution 20EPM)	T/05160.121	60ml	5.40
	T/05160.232	250ml	8.10
	T/05160.565	500ml	12.40
	T/05160.701	1lt	16.50
	T/05160.850	2.5lt	38.30
	T/05160.900	5Lt	72.60
EDTA 0.1M Solution (Hardness Titrating Solution 200EPM)	T/05295.121	60ml	6.20
	T/05295.232	250ml	13.40
	T/05295.565	500ml	19.20
	T/05295.701	1lt	26.00
	T/05295.850	2.5lt	68.65
	T/05295.900	5Lt	100.25
EXOSOL (Xylene/I.P.A. 50:50) Flammable Class 3 UN No. 1993	T/05500.701	1lt	19.20
	T/05500.850	2.5lt	21.25
	T/05500.900	5lt	30.25
	T/05500.950	25lt	103.00
			
HYDROCHLORIC ACID 0.02N (HCl)	T/08702.121	60ml	4.70
	T/08702.232	250ml	7.15
	T/08702.565	500ml	10.00
	T/08702.701	1lt	12.00
	T/08702.850	2.5lt	17.00
	T/08702.900	5Lt	32.00

	Stock Code	Pack	£
HYDROCHLORIC ACID 0.1N (HCl)	T/08704.121	60ml	4.70
	T/08704.232	250ml	7.15
	T/08704.565	500ml	10.00
	T/08704.701	1lt	12.00
	T/08704.850	2.5Lt	17.00
	T/08704.900	5Lt	32.00
HYDROCHLORIC ACID 0.2N (HCl)	T/08739.121	60ml	4.70
	T/08739.232	250ml	7.15
	T/08739.565	500ml	10.00
	T/08739.701	1lt	12.00
	T/08739.850	2.5lt	17.00
HYDROCHLORIC ACID 0.5N (HCl)	T/08751.232	250ml	6.40
	T/08751.565	500ml	7.30
	T/08751.701	1lt	10.40
	T/08751.850	2.5Lt	15.60
	T/08751.900	5Lt	31.10
HYDROCHLORIC ACID 1.0N (HCl) UN No. 1789	T/08740.232	250ml	17.20
	T/08740.565	500ml	18.60
	T/08740.701	1lt	34.60
	T/08740.850	2.5Lt	56.30
HYDROCHLORIC ACID 2.0N (HCl) UN No. 1789	T/08742.232	250ml	17.20
	T/08742.565	500ml	27.20
	T/08742.701	1lt	36.20
	T/08742.850	2.5lt	82.70
HYDROCHLORIC ACID 3.7% (HCl)	T/08798.565	500ml	6.00
HYDROCHLORIC ACID 7.4% (HCl)	T/08799.565	500ml	6.00
HYDROCHLORIC ACID 18% (HCl)	T/08750.565	500ml	13.20
HYDROCHLORIC ACID 15% (HCl) Irritant UN No. 1789	T/08745.121	60ml	6.90
	T/08745.232	250ml	12.30
	T/08745.565	500ml	16.80
HYDROGEN PEROXIDE 3% (H ₂ O ₂)	T/08822.121	60ml	5.20
	T/08822.232	250ml	6.50
	T/08822.565	500ml	9.30
	T/08822.701	1lt	13.40
	T/08822.850	2.5lt	20.35
	T/08822.900	5Lt	38.40
HYDROGEN PEROXIDE 6%	T/08861.121	60ml	5.40
	T/08861.232	250ml	8.10
	T/08861.565	500ml	10.60
	T/08861.701	1lt	15.80
	T/08861.850	2.5lt	29.50

	Stock Code	Pack	£
LITHIUM HYPOCHLORITE	SAF/62540	250g	16.50
MANVER Indicator (Versenate Hardness Indicator) (Calver Indicator Solution)	T/13187.121 T/13187.232 T/13187.565 T/13187.701 T/13187.850	60ml 250ml 500ml 1lt 2.5lt	9.30 15.50 29.50 50.20 123.80
METHYLATED SPIRITS 95%	P/23685.297 P/23685.300 P/23685.320 P/23685.800 P/23685.900	500ml 1lt 2.5lt 5Lt 25lt	5.80 11.50 12.90 25.70 120.70
METHYL ORANGE Indicator	T/13309.121 T/13309.232 T/13309.565 T/13309.701 T/13309.850	60ml 250ml 500ml 1lt 2.5lt	5.90 14.20 24.70 42.80 96.60
METHYL ORANGE / BROMOCRESOL GREEN Indicator	T/13328.121 T/13328.232	60ml 250ml	5.40 14.80
METHYL RED Indicator Flammable Class 3 UN No. 1993	T/13375.121 T/13375.232 T/13375.565 T/13375.701	60ml 250ml 500ml 1lt	14.80 18.60 24.50 41.20
METHYLENE BLUE Indicator	T/13401.121 T/13401.232 T/13401.565 T/13401.701 T/13401.850 T/13401.900	60ml 250ml 500ml 1lt 2.5lt 5Lt	5.90 11.25 20.35 32.70 68.00 87.90
NITRIC ACID 1.0N (HNO ₃) Corrosive Class 8 UN No. 2031	T/14190.232 T/14190.850	250ml 2.5lt	9.25 40.60
PHENOLPHTHALEIN Solution Flammable Class 3 UN No. 1993	T/16200.121 T/16200.232 T/16200.565 T/16200.701 T/16200.850 T/16200.900	60ml 250ml 500ml 1lt 2.5lt 5Lt	5.40 12.65 13.90 27.30 53.80 74.90
POTASSIUM CHLORIDE STANDARD SOLUTION 20 lb/barrel	T/16020.232 T/16020.565	250ml 500ml	8.60 15.20
POTASSIUM CHLORIDE STANDARD SOLUTION 40lb/barrel	T/16040.232 T/16040.565	250ml 500ml	8.60 15.20
POTASSIUM CHLORIDE STANDARD SOLUTION 60lb/barrel	T/16060.232 T/16060.565	250ml 500ml	8.60 15.20



	Stock Code	Pack	£
POTASSIUM CHLORIDE STANDARD SOLUTION 80lb/barrel	T/16080.232	250ml	8.60
	T/16080.565	500ml	15.20
POTASSIUM CHLORIDE Standard Solution (KCL)	T/16250.121	60ml	7.70
	T/16250.232	250ml	17.50
	T/16250.565	500ml	26.95
	T/16250.701	1lt	48.90
POTASSIUM CHROMATE 5% Solution	T/16311.121	60ml	5.90
	T/16311.232	250ml	15.80
	T/16311.565	500ml	26.60
	T/16311.701	1lt	45.30
	T/16311.850	2.5lt	103.00
	T/16311.900	5Lt	140.60
POTASSIUM HYDROXIDE 8.0N (KOH) Corrosive Class 8 UN No. 1814	T/16450.121	60ml	8.60
	T/16450.232	250ml	15.50
	T/16450.565	500ml	21.25
	T/16450.701	1lt	41.60
	T/16450.850	2.5lt	82.40
pH BUFFER SOLUTION 4.0pH	T/16704.121	60ml	7.15
	T/16704.232	250ml	13.40
	T/16704.565	500ml	18.60
	T/16704.701	1lt	22.10
	T/16704.850	2.5lt	45.30
pH BUFFER SOLUTION 7.0pH	T/16707.121	60ml	7.15
	T/16707.232	250ml	13.40
	T/16707.565	500ml	18.60
	T/16707.701	1lt	22.10
	T/16707.850	2.5lt	45.30
pH BUFFER SOLUTION 10.0pH	T/16710.121	60ml	7.15
	T/16710.232	250ml	13.40
	T/16710.565	500ml	18.60
	T/16710.701	1lt	22.10
	T/16710.850	2.5lt	45.30
ETHOXY-BUTOXY PROPANAL (RS21 Solvent) Flammable Class 3 UN No. 1993	T/18001.701	1lt	31.70
	T/18001.900	5lt	58.90
	T/18001.950	25lt	194.10
SILVER NITRATE 0.0282N Solution (AgNO ₃) (1ml = 0.001g Cl)	T/19140.121	60ml	7.15
	T/19140.232	250ml	11.90
	T/19140.565	500ml	17.20
	T/19140.701	1lt	27.90
	T/19140.850	2.5lt	55.50
SILVER NITRATE 0.282N Solution (AgNO ₃) (1ml = 0.01g Cl)	T/19190.121	60ml	16.50
	T/19190.232	250ml	39.10
	T/19190.565	500ml	73.40
	T/19190.701	1lt	139.30
	T/19190.850	2.5lt	324.80



	Stock Code	Pack	£
SILVER NITRATE 0.1N Solution	T/19220.121	60ml	8.60
	T/19220.232	250ml	15.50
	T/19220.565	500ml	25.70
	T/19220.701	1lt	39.60
	T/19220.850	2.5lt	79.80
SODIUM FLUORIDE (Vials)	T/19300.015	1.5g	2.70
SODIUM HEXAMETAPHOSPHATE	T/912310	500g	11.40
SODIUM HYDROXIDE 0.1N (NaOH)	T/19315.121	60ml	5.40
	T/19315.232	250ml	8.60
	T/19315.565	500ml	11.30
	T/19315.701	1lt	13.70
	T/19315.850	2.5lt	23.00
	T/19315.900	5Lt	31.20
SODIUM HYDROXIDE 0.2N	T/19333.121	60ml	5.40
	T/19333.232	250ml	8.60
	T/19333.565	500ml	11.30
	T/19333.701	1lt	13.60
	T/19333.850	2.5lt	23.00
SODIUM HYDROXIDE 1.0N (Calver/Calcium Buffer) Corrosive Class 8 UN No. 1824	T/19410.121	60ml	5.40
	T/19410.232	250ml	8.60
	T/19410.565	500ml	11.30
	T/19410.701	1lt	13.60
	T/19410.850	2.5lt	23.00
	T/19410.900	5Lt	31.20
SODIUM HYDROXIDE 5.0N Corrosive Class 8 UN No. 1824	T/19466.121	60ml	5.90
	T/19466.232	250ml	14.20
	T/19466.565	500ml	16.80
	T/19466.701	1lt	21.30
	T/19466.850	2.5lt	30.25
	T/19466.900	5Lt	48.80
SODIUM PERCHLORATE Solution Oxidising Class 5.1 UN No. 3211	T/19660.121	60ml	11.30
	T/19660.232	250ml	36.00
	T/19660.565	500ml	69.50
	T/19660.701	1lt	130.60
	T/19660.850	2.5lt	261.70
SODIUM TETRAPHENYLBORON Solution	T/19695.232	250ml	22.10
	T/19695.701	1lt	72.50
STANNIC CHLORIDE Solution (Floc Developer 'S') Corrosive Class 8 UN No. 1760	T/19730.121	60ml	8.60
	T/19730.232	250ml	16.50
	T/19730.565	500ml	26.60
	T/19730.701	1lt	47.30
	T/19730.850	2.5lt	102.10
STARCH Indicator	T/19815.121	60ml	5.90
	T/19815.232	250ml	9.25
	T/19815.565	500ml	16.80
	T/19815.701	1lt	24.10
	T/19815.850	2.5lt	57.50
	T/19815.900	5Lt	86.00



	Stock Code	Pack	£
SULPHATE Indicator	T/19830.121	60ml	10.60
SULPHURIC ACID 0.01N (H ₂ SO ₄)	T/19895.121	60ml	5.40
	T/19872.232	250ml	7.15
	T/19872.565	500ml	9.90
	T/19872.701	1lt	11.30
	T/19872.850	2.5Lt	22.05
	T/19872.900	5Lt	27.90
SULPHURIC ACID 0.02N	T/19895.121	60ml	5.40
	T/19895.232	250ml	7.15
	T/19895.565	500ml	9.90
	T/19895.701	1lt	11.30
	T/19895.850	2.5lt	22.05
	T/19895.900	5Lt	27.90
SULPHURIC ACID 0.1N	T/19902.121	60ml	5.40
	T/19902.232	250ml	7.15
	T/19902.565	500ml	9.90
	T/19902.701	1lt	11.30
	T/19902.850	2.5lt	22.05
	T/19902.900	5Lt	27.90
SULPHURIC ACID 5.0N Corrosive Class 8 UN No. 2796	T/19910.121	60ml	5.40
	T/19910.232	250ml	9.30
	T/19910.565	500ml	12.70
	T/19910.701	1lt	22.90
	T/19910.850	2.5lt	43.20
	T/19910.900	5Lt	70.40
THYMOLPHTHALEIN Indicator Flammable Class 3 UN No. 1993	T/20200.121	60ml	5.90
	T/20200.232	250ml	15.80
	T/20200.565	500ml	28.60
DEIONISED WATER	T/23500.232	250ml	5.20
	T/23500.565	500ml	6.50
	T/23500.701	1lt	7.90
	T/23500.900	5lt	12.00
	T/23500.950	25lt	29.90
DISTILLED WATER	T/23400.232	250ml	5.40
	T/23400.565	500ml	6.30
	T/23400.701	1lt	8.60
	T/23400.850	2.5lt	10.60
	T/23400.900	5lt	13.40
	T/23400.950	25lt	32.90
SEA SALT SOLUTION	T/24010.001	25lt	111.55



TEST SOLUTION KITS

Various standard kits can be supplied as listed on the following pages. We can also tailor kits to your specifications. These kits are generally supplied loose or packed suitable for transport by sea or air. Due to the hazardous nature of some of the chemicals it is not possible to simply put all the necessary solutions in one large case and supply it as "a kit", if the kit is to be shipped offshore or overseas. All our chemicals can be packed for transport by sea or air, by fully qualified and trained staff. Please ask for details.

KIT A (Standard 30 day)

T/27000.001

Test Solution		Excluding packaging	£ 502.15
Ammonia Buffer	2 x 60ml	Incl packaging & documentation	
RS21	2 x 5Lt	for sea freight	£ 590.05
Calver II	3 x 10g		
E.D.T.A. 0.01M	2 x 250ml	Incl packaging & documentation	
E.D.T.A. 0.1M	2 x 250ml	for air freight	£ 614.00
Hydrogen Peroxide 3%	4 x 250ml		
Manver Indicator	2 x 60ml		
Methylene Blue	3 x 250ml		
Methyl Orange	2 x 60ml		
Phenolphthalein	2 x 60ml		
Potassium Chromate 5%	2 x 60ml		
Silver Nitrate 0.0282N	2 x 250ml		
Silver Nitrate 0.282N	2 x 250ml		
Sodium Hydroxide 0.1N	2 x 250ml		
Sodium Hydroxide 1.0N	3 x 60ml		
Sulphuric Acid 0.02N	2 x 250ml		
Sulphuric Acid 0.1N	2 x 250ml		
Sulphuric Acid 5.0N	1 x 250ml		

KIT B - Water Based Mud (Standard 30 day)

T/27005.001

Test Solution		Excluding packaging	£ 520.40
Ammonia Buffer	2 x 60ml	Incl packaging & documentation	
Bromocresol Green	2 x 60ml	for sea freight	£ 640.10
Calver II	1 x Pk/100 Pillows		
Defoamer	1 x 60ml		
Distilled Water	1 x 25Lt		
E.D.T.A. 0.01M	2 x 250ml		
Gas Cartridges - CO2	15 x Pk/10		
Hydrogen Peroxide 3%	2 x 250ml		
Manver Indicator	2 x 60ml		
Methylene Blue	2 x 250ml		
Methyl Orange	1 x 60ml		
pH Buffer 4.0pH	1 x 250ml		
pH Buffer 7.0pH	1 x 250ml		
pH Buffer 10.0pH	1 x 250ml		
Phenolphthalein	2 x 60ml		
Potassium Chromate 5%	2 x 60ml		
Potassium Chloride Std Sol.	1 x 250ml		
Potassium Hydroxide 8.0N	2 x 60ml		
Silver Nitrate 0.0282N	2 x 250ml		
Silver Nitrate 0.282N	2 x 250ml		
Sodium Hydroxide 0.1N	2 x 250ml		
Sodium Hydroxide 1.0N	1 x 250ml		
Sodium Perchlorate Solution	1 x 250ml		
Sulphuric Acid 0.02N	1 x 250ml		
Sulphuric Acid 5.0N	4 x 60ml		

KIT C - Oil Based Mud (Standard 30 day)
T/27006.001
Test Solution

Ammonia Buffer	2 x 60ml
Aktaflo E	1 x 250ml
Calver II	1 x Pk/100 Pillows
Defoamer	1 x 60ml
Distilled Water	1 x 25Lt
E.D.T.A. 0.01M	2 x 250ml
Exosol	4 x 1Lt
Gas Cartridges - CO2	15 x Pk/10
Gas Cartridges - N2O	5 x Pk/10
Manver Indicator	2 x 60ml
Phenolphthalein	2 x 60ml
Potassium Chromate 5%	2 x 60ml
Potassium Hydroxide 8.0N	2 x 60ml
Silver Nitrate 0.0282N	2 x 250ml
Silver Nitrate 0.282N	2 x 250ml
Sodium Hydroxide 0.1N	2 x 250ml
Sulphuric Acid 0.02N	1 x 250ml
Sulphuric Acid 0.1N	2 x 250ml

Excluding packaging £ 463.90

 Incl packaging & documentation
for sea freight £ 551.65

KIT D - Combination Mud Kit (Standard 30 day)
T/27007.001
Test Solution

Ammonia Buffer	2 x 60ml
Bromocresol Green	2 x 60ml
Calver II	1 x Pk/100 Pillows
Defoamer	1 x 60ml
Distilled Water	1 x 25Lt
E.D.T.A. 0.01M	2 x 250ml
Exosol	1 x 25Lt
Gas Cartridges - CO2	15 x Pk/10
Hydrogen Peroxide 3%	2 x 250ml
Manver Indicator	2 x 60ml
Methylene Blue	2 x 250ml
Methyl Orange	1 x 60ml
pH Buffer 4.0pH	1 x 250ml
pH Buffer 7.0pH	1 x 250ml
pH Buffer 10.0pH	1 x 250ml
Phenolphthalein	2 x 60ml
Potassium Chromate 5%	2 x 60ml
Potassium Chloride Std Sol.	1 x 250ml
Potassium Hydroxide 8.0N	2 x 60ml
Silver Nitrate 0.0282N	2 x 250ml
Silver Nitrate 0.282N	2 x 250ml
Sodium Hydroxide 0.1N	2 x 250ml
Sodium Hydroxide 1.0N	1 x 250ml
Sodium Perchlorate Solution	1 x 250ml
Sulphuric Acid 0.02N	1 x 250ml
Sulphuric Acid 0.1N	2 x 250ml
Sulphuric Acid 5.0N	4 x 60ml

Excluding packaging £ 637.40

 Incl packaging & documentation
for sea freight £ 757.20