


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 <p>UKAS TESTING</p> <p>2613</p> <p>Accredited to ISO/IEC 17025:2017</p>	<h3>Chemring Countermeasures Limited</h3> <p>Issue No: 020 Issue date: 15 April 2021</p>	
	<p>High Post Salisbury Wiltshire SP4 6AS</p>	<p>Contact: Enquiries +44 (0)1722 411611 Tel: +44 (0)1722 428739 Fax: +44 (0)1722 428794 E-Mail: ian.callender@chemringcm.com Website: www.chemringcm.com</p>
<p>Testing performed at the above address only</p>		

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p>Hazardous items including but not limited to: Ammunition Explosives and Propellants Firearms Fuses: Weapons Missile Components Missiles: Guided Missiles: Unguided Rocket Motors Weapons and Sub-assemblies Aerospace Components and Equipment</p> <p>Non-hazardous items including but not limited to: Aerospace Structures Castings Compressors Computers, Peripherals and other IT Equipment Electrical/Electronic Components Connectors and Products Hydraulic Equipment Radar Equipment Sonar Equipment Telecommunications Equipment</p>	<p>ENVIRONMENTAL TESTS Environmental Testing, including dangerous substances under sub-divisions of Explosives Class 1 of the UN Dangerous Goods Classification System</p> <p>Climatic Testing: Concessions for small quantities of HD 1.1 and HD 1.2 by application 50 kg HD 1.3 100 kg HD 1.4</p> <p>Dynamic Testing: Concessions for small quantities of HD 1.1 by application 15 kg HD 1.2 50 kg HD 1.3 100 kg HD 1.4</p>	



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As listed on Page 1	<p>CLIMATIC</p> <p>High Temperature (Constant and Cyclic)</p> <p>Max. temperature: 110°C Max Chamber Size: 2.1 m x 2.9 m x 2.3 m high</p>	<p>BS EN 60068-2-2:2007 IEC 60068-2-2:2007 DEF STAN 00-35 Part 3: Iss 3, Test CL1 and CL2 (A1, A2, A3) Iss 4, Test CL1 and CL2 (A1, A2, A3) DEF STAN 00-035 Part 3: Iss 5, Test CL2 (A1, A2, A3) DEF STAN 07-55: 1975 Test B1, B2 MIL-STD 331B: 1994 Test C6 MIL-STD 810: D Method 501 E Method 501 F Method 501 G Method 501 H Method 501 STANAG 2895, 1990 (A1, A2, A3) (Transit and storage conditions)</p>
	<p>Low Temperature Constant and Cyclic</p> <p>Min Temp: -60°C Max Chamber Size: 2.1 m x 2.9 m x 2.3 m high</p> <p>Min Temp: -65°C Max Chamber Size: 1 m x 2 m x 1 m high</p>	<p>BS EN 60068-2-1:2007 IEC 60068-2-1:2007 DEF STAN 00-35 Part 3: Iss 3, CL4 (Test ab) Iss 4, CL4 (Test ab) Iss 3, CL5 (C0, C1, C2, C4, M3) Iss 4, CL5 (C0, C1, C2, C4, M3) DEF STAN 00-035 Part 3: Iss 5, CL5 (C0, C1, C2, C4, M3) DEF STAN 07-55:1975 Test B4, B5 STANAG 2895, 1990 C0, C1, C2, C4, M3 MIL-STD 331B:1994, Test C6 MIL-STD 810 D Method 502 E Method 502 F Method 502 G Method 502 H Method 502</p>



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As listed on Page 1	<p>CLIMATIC (cont'd)</p> <p>High Temperature/High Humidity Constant</p> <p>Temp Range: 20°C to +71°C Max Chamber Size: 2 m x 1 m x 1 m high Humidity Range: 15% rh to 95% rh</p> <p>Temp Range: 20°C to +71°C Max Chamber Size: 2.1 m x 2.5 m x 2 m high Humidity Range: 15% rh to 80% rh</p>	<p>BS 2011:Ca:1977(1987)superseded IEC 68-2-3:1969 superseded BS EN 60068-2-78: Cab:2002 IEC 60068-2-78: Cab:2001 BS EN 60068-2-78:2012 DEF STAN 00-35 Part 3: Iss 3: CL7 Iss 4: CL6 (CL7) DEF STAN 00-035 Part 3: Iss 5: CL6 DEF STAN 07-55:1975 Test B7</p>
	<p>High Temperature/High Humidity Cyclic</p> <p>Temp Range: 20°C to +71°C Max Chamber Size: 2 m x 1 m x 1 m high Humidity Range: 15% rh to 95% rh</p> <p>Temp Range: 20°C to +71°C Max Chamber Size: 2.1 m x 2.9 m x 2.3 m high Humidity Range: 15% rh to 80% rh</p>	<p>BS 2011:Db:1977(1987) & 2005 IEC 60068-2-30:2005 BS3G100:Part 2:Section 3: Sub-Section 3.7:1972(1983) DEF STAN 00-35 Part 3: Iss 3: Test CL6 B1, B2, B3 Iss 4: Test CL6 B1, B2, B3 DEF STAN 00-35 Part 3: Iss 5: Test CL6 B1, B2, B3 DEF STAN 07-55:1975 Test B6, B8 MIL-STD 331B:1994 Test C1 MIL-STD 810 D Method 507 E Method 507 F Method 507 G Method 507 H Method 507 STANAG 2895:1990 B1, B2, B3</p>



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As listed on Page 1	CLIMATIC (cont'd) Thermal Shock Manual Transfer Max Temp: +110°C Min Temp: -60°C Automatic transfer Max Temp: +110°C Min Temp: -65°C	BS3G100:Part 2:Section 3: Sub-Section 3.15:1978(1983) DEF STAN 00-35 Part 3: Iss 3: Test CL14 Iss 4: Test CL14 DEF STAN 00-035 Part3: Iss 5: Test CL14 DEF STAN 07-55:1975 Test B14 MIL STD 810 D Method 503 E Method 503 F Method 503 G Method 503 H Method 503
	DECOMPRESSION Min Pressure: 50 mbar Max Chamber Size: 435 mm dia x 570 mm	BS 2011:M:1984 BS EN 60068-2-13:M:1999 IEC 60068-2-13:M:1983 BS3G100:Part 2:Section 3: Sub-Section 3.2:1970(1983) DEF STAN 00-35 Part 3: Iss 3: Test CL9 Sev D & F(4) Iss 4: Test CL9 Sev D & F(4) DEF STAN 00-35 Part 3: Iss 3: Test CL20 Iss 4: Test CL20 DEF STAN 00-035 Part 3: Iss5: Test CL9, Test CL11 MIL-STD 810 D Method 509 E Method 509 F Method 509 G Method 509 H Method 509



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As listed on Page 1	<p>CLIMATIC (cont'd)</p> <p>CORROSION SALT</p> <p>Temp Range: ambient to +40°C Humidity range: 93%rh Chamber Size: 1.6 m x 0.5 m x 0.7 m</p>	<p>BS 2011:Ka and Kb BS EN 60068-2-52:Kb:1996 BS EN 60068-2-11:Ka:1999 BS3G100:Part 2:Sub-Section 3.8: 1977(1983) DEF STAN 00-35 Part 3: Iss 3: Test CN2 Iss 4: Test CN2 DEF STAN 00-035 Part 3: Iss 5: Test CN2 DEF STAN 07-55:1982, Test C2 MIL-STAN 331B:1994, Test C3 MIL-STAN 810 D Method 509 E Method 509 F Method 509 G Method 509 H Methid 509</p>
	<p>WATER SEALING</p> <p>Max depth 1 m for items up to 0.5 m x 0.5 m high</p>	<p>DEF STAN 00-35 Part 3: Iss 3: Test CL29 Iss 4: Test CL29 DEF STAN 00-035 Part 3: Iss 5: Test CL29 DEF STAN 07-55:1975, Test D5 MIL-STD 810 D Method 512 E Method 512 F Method 512 G Method 512 H Method 512</p>



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As listed on Page 1	<p>DYNAMIC</p> <p>Vibration: Modes of Sinusoidal random Narrowband Random on Random, , sine on random Classic Shock Pulse: (Severity and mass dependant) Half-Sine Sawtooth Bump</p> <p>Electromagnetic Shaker Capabilities Total of 3 systems</p> <p>Maximum Values: Thrust 60kN - Sine 66kN - Random Frequency Range: 2-2500 Hz Max Payload 700 kg Max Displacement: 63.5mm pk-pk Temperature Conditioning: Vertical: -65°C to +106°C Horizontal - slip table: -46°C +71°C Slip table size: 1.2m x 1.2m Chamber Size: 1.4 m x 1.4 m x 1.9 m high</p>	<p>BS 2011:Fc:1983 superseded BS 2011:Fd:1973(1984)superseded BS3G100:Part 2:Section 3: Sub-Section 3.1:1969(1983) BS EN 60068-2-6:Fc:2008 BS EN 60068-2-64:1995 BS EN 60068-2-7:Ga:1987 BS EN 60068-2-29:Eb:1987 & 1993 DEF STAN 00-35 Part 3: Iss 3: Test M1, M2, M3 Iss 4: Test M1, M2, M3 DEF STAN 00-035 Part 3: Iss 5: Test M1, M2, M3 DEF STAN 07-55:1975 Test A1, A2, A3, A5 MIL-STD 331B:1994, Tests B1, B2 MIL-STD 810 D Method 514, 516 E Method 514, 516 F Method 514, 516 G Method 514 H Method 514 STANAG 4242:1977</p>
	<p>SHOCK (Free/accelerated fall) Modes of Half sine Max Severity: 250 kg Pulse Width: 0.2 to 60 ms (g dependant) Max Item Mass: 35 kg Table Size: 0.23 m x 0.23 m Temperature Pre-Conditioning: -65°C to 110°C</p>	<p>BS EN 60068-2-7:1987 DEF STAN 00-35 Part 3: Iss 3: Test M3 Iss 4: Test M3 DEF STAN 00-035 Part 3; Iss 5: Test M3 DEF STAN 07-55:1975, Test A3 MIL-STD 810 D Method 516 E Method 516 F Method 516 G Method 516 H Method 516</p>



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As listed on Page 1	DYNAMIC (cont'd) FREE FALL Impact Surface: Steel plate Max Drop Height: 7 m Max Size of Plate: 2 m x 1.5 m Max Item Mass: 35 kg Temperature Pre-Conditioning: -65°C to 110°C	DEF STAN 00-35 Part 3: Iss 3: Test M5 Iss 4: Test M5 DEF STAN 00-035 Part 3; Iss 5: Test M5 DEF STAN 07-55:1975 Test A9
END		