

Schedule of Accreditation
 Issued to
 for Testing Laboratory According to ISO/IEC 17025
 Laboratory For Testing Fire Fighting Extinguishers and its Accessories
 BAVARIA Egypt
 Block 109, Giser El Suez St. Industrial Zone, Cairo, Egypt

Schedule No.: 20406B Issue No. (2): January 19, 2017 1st accreditation date: March 7, 2004 Revision No. (2): October 29, 2018 Valid to : October 31, 2020

| Material / Product Tested | Types of Tests / Properties Measured / Range of Measurement | Standard Specifications / Techniques Used |
|--|---|---|
| Top, wall & bottom of fire extinguisher cylinder & sheet metal | Measurement of metal thickness up to 12 mm | ES 734:2013 Item 4.1.2 Dial thickness gauge Code No: 15/2 Digital micrometer Code No: 13/2 |
| Portable dry chemical powder fire extinguisher | Leakage test due to operation. up to 30 bar | ES 734:2013 Item 7.8.5.1 Dial pressure gauges CN. 43, 44, 45, 46 Digital pressure gauges SN. 0231971, 023819 Digital stop watches CN. ID/5, 5/2 |
| | Leakage test due to storage. up to 30 bar | ES 734:2013 Item 7.8.5.2 Dial pressure gauges CN. 43, 44, 45, 46 Digital pressure gauges SN. 0231971, 023819 Sensitive Digital Balance SN. 54798 |

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|--|--|--|
| Cylinder of portable fire extinguisher | Pressure test at 35 bar Crushing test up to 35 bar | ES 734:2013 item 3.14, 7.7.4 ES 734:2013 item 7.7.8 Hydrostatic test pump SN, EP 601 D / 200 Dial Pressure Gauges CN, 408/2, 409/2 Digital stop watches CN, ID/5, 5/2 |
| Hose assembly of portable dry chemical powder fire extinguisher | Drop test of fire extinguisher equipped with a hose assembly Improper impact stress after added weight 5 kg | ES 734:2013 item 4.13.1, 7.6.2 Weight piece 5 kg SN, 040 Measuring tape SN, 022 |
| Pistol / shutoff nozzle / base of portable dry chemical powder fire extinguisher | Electric insulation test (insulation breakdown due to voltage) ≤1000 V | ES 734:2008 item 4.13.2, 4.14 High voltage insulation tester SN, 0193514 |

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|--|--|---|
| Portable dry chemical powder fire extinguisher | Measurement of working pressure at maximum operating temperature Performance test for discharge time and residual of filling material | ES 734:2013 Item 3.13 Dial pressure gauges CN, 43, 44, 45, 46 Digital pressure gauges SN, 0231971, 023819 Performance test apparatus (computerized electronic scale) SN, DF 1001 Sensitive Digital Balance SN, 54798 Digital vernier calibers SN, 249312, 1727 |
| Portable dry chemical powder fire extinguisher | Test for measuring operating force - Effect of operating temperatures Test | ES 734:2013 Item 7.8.3 Digital Force measuring apparatus SN, N 9201027, G 9507F534 SN, 039 Digital vernier calibers SN, 249312, 1727 Digital aging resistance test chambers equipment SN, 221/17016 SN, 59226041250010 Sensitive Digital Balance SN, 54798 Digital stop watches SN, ID/5, 5/2 |
| | Humidity and corrosion resistance test Properties measured in performance test | ES 734:2013 Item 7.8.7 Humidity and corrosion test chambers equipment CN, 302, 6 |

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كواليتي القياس - مرجع يقيس القياسات القياسية
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القائمة الزمنية لخطوط الاستثمار الصناعي في مصر

M. O. K. W. A. G. A.



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|--|--|---|
| Safety valve | Opening pressure ≤ 25 bar | ES 734:2013 Item 3.7, 4.5 Hydrostatic test pump SN, EP 601 D/200 Dial pressure gauges CN: 408/2, 409/2, 24/2 Digital pressure gauge SN, 4360BC923 |
| Hose and shut – off nozzle assembly | Burst pressure test ≥ 70 bar for 30 second and up to 400 bar | ES 734:2013 Item 7.6.1 Hydrostatic test pump CN, 31/2 Digital pressure gauge SN, 4360BC923 Dial pressure gauge SN, 126 |
| Plastic head assembly | Screw performance test Torque From 25 to 70 N.m | ES 734:2013 Item 7.4.2 Hydrostatic test pump CN, 31/2 Torque wrench SN, 10 Digital stop watches CN, 1D/5, 5/2 Digital pressure gauge SN, 4360BC923 Dial pressure gauge SN, 126 |
| Gas pressure cylinder (External / Internal cylinder) | Burst pressure test ≥ 600 bar for rechargeable cylinders for test ≥ 450 bar for one use cylinders for test | ES 734:2013 Item 4.2 Hydrostatic test pump CN, 31/2 pressure gauge CN, 47, 11/2 |

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| Portable dry chemical powder fire extinguisher | Tapping test - Resistance to loss in performance due to repeated drop test - properties measured in performance test | ES 734:2013 Item 7.8.6 Tapping test apparatus CN. 107/2 Digital counter CN. 32/2 |
| Cylinder of portable dry chemical powder fire extinguisher | Hammer test after Effect of operating temperatures Test | ES 734:2013 Item 7.4.1 Hammer apparatus bavaria CN. 102/2 weight 4 kg SN. 039 Digital and dial pressure gauges CN. 43, 44, 45, 46 SN. 0231971, 023819 Sensitive Digital Balance SN. 54798 Measuring tape CN. 5/3 |
| Cylinder of portable dry chemical powder fire extinguisher | Surface Treatment & Coating Test (after leakage test due to storage) | ES 734:2013 Item 7.7.1 Scratch test apparatus SN. 5122 |
| Portable dry chemical powder fire extinguisher | Vibration resistance test (capability to resist the effect of vibration of range) | ES 734:2013 Item 7.8.8 Vibration apparatus SN, PRC 0590 Digital stop watches CN. ID/5, 5/2 |

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| Pressure indicator | Pressure indicator accuracy test | ES 734:2013 item 7.5.1 Manifolds CN. 104/2 Digital pressure gauges SN. 0231971, 023819 |
| | Over Pressure test | ES 734:2013 item 7.5.2 High pressure cylinder CN. 416/2 Manifolds CN. 104/2 & 104/3 Digital and dial pressure gauges SN. 0231971, 023819, 015, 016 |
| | Oscillating pressure test From 0 to 125% Working pressure Or 60% FS for pressure gauge which one is bigger | ES 734:2013 item 7.5.3 High pressure cylinder CN. 416/2 Manifolds CN. 104/2 & 104/3 Digital and dial pressure gauges SN. 0231971, 023819, 015, 016 Digital counter CN. 33/2, 412/2 |
| | Burst pressure test | ES 734:2013 item 7.5.4 Hydrostatic test pump CN. 31/2 Digital pressure gauge SN. 4360BC923 Dial Pressure gauge SN. 126 |

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