



SCE STANDARD TESTING PROGRAMMES

Following the 2008 acquisition of SCE in America, Chilworth are pleased to offer a range of new test services.

Safety Consulting Engineers, Inc. has a wide range of standard hazards test and initiation sensitivity test equipment for hazards analysis support.

New services available from our Chicago, USA, test facility:

EXPLOSIBILITY/DETONABILITY TESTS

- Relative Quickness (Closed Bomb, Pressure Time) MIL-STD Method 801.1
- Detonation TB 700-2 and UN ST/SG/AC.10/11/Rev.2

THERMAL SENSITIVITY TESTS

- Arrhenius Kinetic Constants ASTM E 698 and Figures-of-Merit ASTM E 1231
- Heat of Fusion and Crystallization ASTM E 793
- Heat of Combustion ASTM D 240
- Decomposition Kinetics ASTM E 1641
- Heat Flux and Thermal Transmission ASTM C 177
- Specific Heat Capacity ASTM E 1269
- Thermal Conductivity of Solids ASTM E 1225
- Thermal Diffusivity ASTM E 1461
- Constant-Temperature Stability ASTM E 487
- Thermal Instability of Confined Condensed Phase (Confinement Test) ASTM E 476
- Vacuum Thermal Stability MIL-STD 286B/T403.1.2
- Woods Metal Bath Explosion Time and Temperature (Henkin) Tests
- Evaporation Rate ASTM D 1901
- Linear Burning Rate MIL-STD 286B/T803.1
- Small Scale Cook-off UN ST/SG/AC.10/11/Rev.2

MECHANICAL SENSITIVITY TESTS

- Drop Weight Impact Sensitivity (Bureau of Mines 5-Kg Drop weight) ASTM E 680
- Impact Sensitivity (Bureau of Explosives Impact Apparatus) TB 700-2
- Adiabatic Compression SCE
- Strip Friction SCE
- Dust Cloud Metal Sparking Initiation Sensitivity SCE
- Particle Impingement SCE

For further information or a quote for the above test services please contact our UK office on +44 (0)23 8076 0722 and ask for Dr Steve Rowe or Mike Weaver; alternatively email info@chilworth.co.uk or write to Chilworth Technology Ltd, Beta House, Southampton Science Park, Southampton, SO16 7NS and we will arrange to contact you.