TECHNICAL INFORMATION SHEET
J-Tek LEAD-FREE
ELECTRIC MATCHES

Pyrotechnic: Proprietary, contains no lead, mercury, cadmium or chromium compounds.

Soldering: Bridgewire and lead wires attached using lead-free solder.

Average Bridgewire Resistance: 1.0 ohm (Std. Deviation = 0.09 ohm)

Average Chemical composition: 0.04 Grams

Firing Characteristics:

Maximum No-Fire Current 0.30 amp. (300 milliamp.)
Minimum All-Fire Current 0.75 amp. (750 milliamp.)
Recommended Minimum Firing Current 1.00 amp.
Recommended Nominal Firing Current 1.25 amp.
Maximum Test Current 0.04 amp. (40 milliamp.)
Minimum Firing Pulse 1 ms. @ 170 v.; 10 ms. @ 12 v.
Minimum All-Fire Energy 4 mj. (4 millijoules)
Heat of Explosion (HOE) 718 cal/gram
Impetus 400 J/g
Flame Temp. 3709 K
Gamma 1.184
Co-volume 6.491 inches cubed per pound mass

Sensitivity:
J-Tek electric matches are less sensitive to impact, friction and electrostatic discharge than most similar products on the market. However, the user should still observe industry recommended precautions to prevent damage to match head and accidental application of ignition stimuli to match head or lead wires.
Electric matches are supplied with a protective rubber shroud for the match head which should never be removed.

Thermal Stability: Explosives Regulatory Division in Canada have tested and passed the J-tek igniter head at 75C/167F for 48 hours.

Test Definitions:
Maximum No-fire Current - The maximum electrical current that can be applied to the electric match bridge wire for 30 seconds that will not fire the match head.

Minimum All-fire Current - The minimum electrical current that can be applied for 1/2 second, which will always fire the match head.

Data was taken at 1.5 volts

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