

Chemical Compatibility



Kit Part No. CCK-6MX6

Chemical Compatibility Test Kit

- Includes 6 Cree MX-6 LEDs
- Used to properly test material chemical compatibility up to 85°C⁽¹⁾⁽²⁾ conditions
- Test material intended for use with LEDs for outgassing volatile organic compounds (VOCs) that can damage LEDs in a sealed environment
- MX-6 must run a constant current of 350mA⁽¹⁾⁽²⁾
- Used to validate chemical compatibility with: MHB-A, MHD-G, MX-3, MX-6, ML-B, ML-C, and ML-E LEDs
- Reference Documents:
 - Chemical compatibility testing procedures video HERE
 - ⁽¹⁾For most up to date testing information check the Cree chemical compatibility application notes <u>HERE</u>
- ⁽²⁾Make sure work surface can handle temperature conditions.





Last Modified 1/18/2017



Chemical Compatibility



Kit Part No. CCK-6XHP50

Chemical Compatibility Test Kit

- Includes 6 Cree XHP LEDs
- Used to properly test material chemical compatibility up to 120°C⁽¹⁾⁽²⁾ conditions
- Test material intended for use with LEDs for outgassing volatile organic compounds (VOCs) that can damage LEDs in a sealed environment
- XHP must run a constant current of 700mA⁽¹⁾⁽²⁾
- Used to validate chemical compatibility with: XHP35, XHP50, XHP70 LEDs
- Reference Documents:
 - Chemical compatibility testing procedures video HERE
 - ⁽¹⁾For most up to date testing information check the Cree chemical compatibility application notes <u>HERE</u>
- ⁽²⁾Make sure work surface can handle temperature conditions.





Last Modified 1/18/2017



Chemical Compatibility



Kit Part No. CCK-6XPE

Chemical Compatibility Test Kit

- Includes 6 Cree XLamp® XP-E LEDs
- Used to properly test material chemical compatibility up to $85^{\circ}C^{(1)(2)}$ conditions
- Test material intended for use with LEDs for outgassing volatile organic compounds (VOCs) that can damage LEDs in a sealed environment
- XP-E must run a constant current of 700mA⁽¹⁾⁽²⁾
- Used to validate chemical compatibility with:

CXA, CXB, XP-C, XP-E, XP-G, XM-L, XM-L HV, XT-E, XT-E HV, MK-R, XB-D, XQ-D, XQ-B, and MT-G LEDs

- Reference Documents:
 - Chemical compatibility testing procedures video HERE
 - ⁽¹⁾For most up to date testing information check the Cree chemical compatibility application notes <u>HERE</u>
- ⁽²⁾Make sure work surface can handle temperature conditions.





Last Modified 7/13/2016



Chemical Compatibility Kit - *Quick Reference Guide*

Place material to test on top of the first three LED components, then place the material to test on the base of the next two LED components. The final LED will be the control reference.



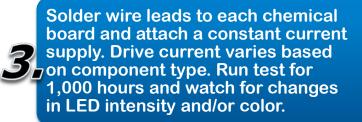


Mix the Arctic Silver Thermal Adhesive in a mixing cup. Apply the adhesive around the base of the glass vials then place around each LED. Twist slightly to ensure a proper seal.













XHP50 must run constant current of 700mA⁽¹⁾



XP-E must run constant current of 700mA⁽¹⁾



MX-6 must run constant current of 350mA⁽¹⁾





(1) For most up to date testing information check the cree chemnical compatibility application notes below: www.cree.com/xlamp_app_notes/chemical_compatibility

