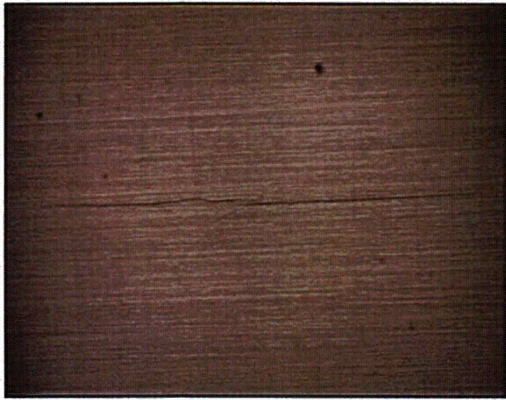
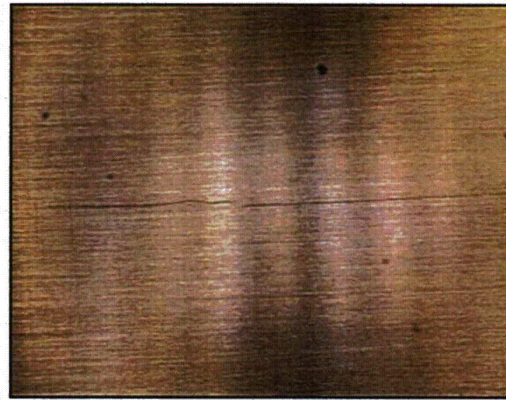


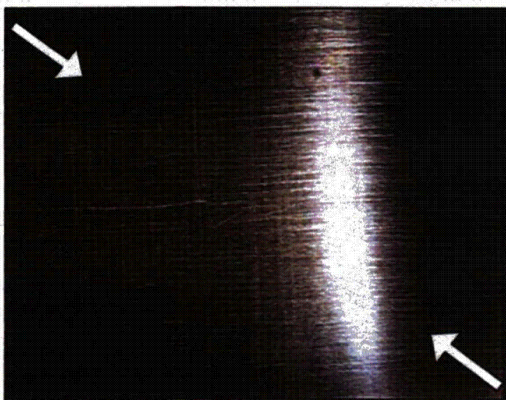
**Sample 5 – Horizontal Scratching – 40- $\mu$ m Crack Opening Dimension**



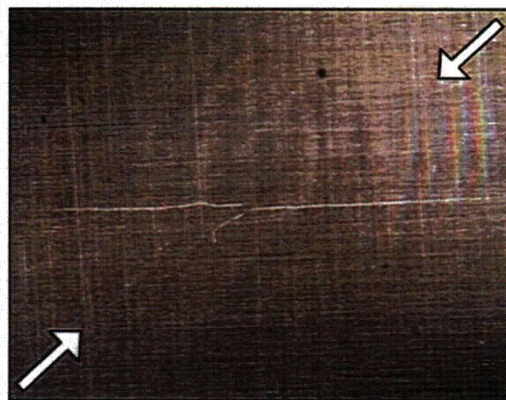
**Figure B.85 - Sample 5  
Diffuse On-Axis Lighting**



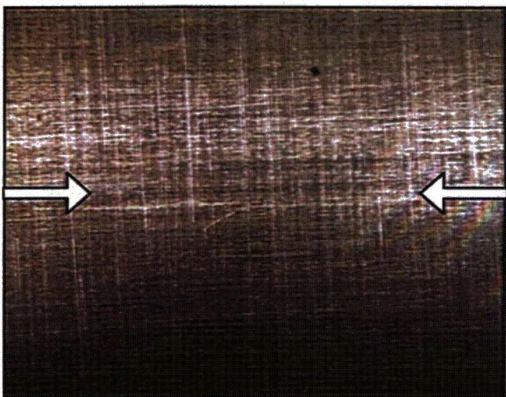
**Figure B.86 - Sample 5  
Diffuse Ring Lighting**



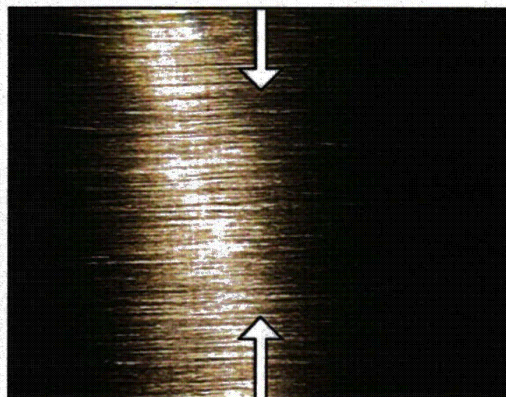
**Figure B.87 - Sample 5  
Spotlighting from Indicated Directions**



**Figure B.88 - Sample 5  
Spotlighting from Indicated Directions**



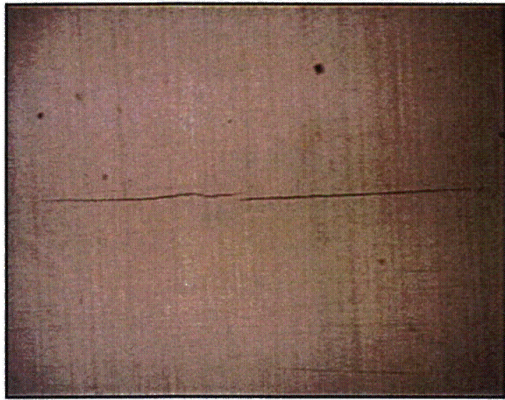
**Figure B.89 - Sample 5  
Spotlighting from Indicated Direction**



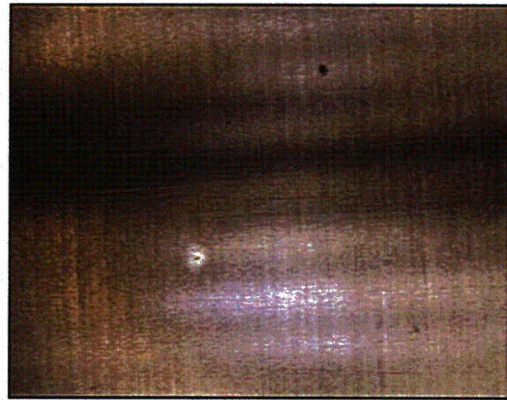
**Figure B.90 - Sample 5  
Spotlighting from Indicated Direction**



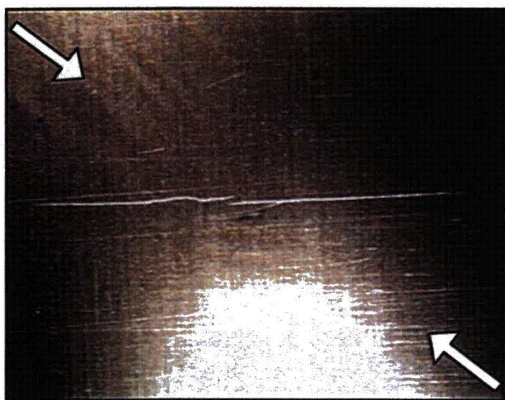
**Sample 5 – Vertical Scratching – 40- $\mu$ m Crack Opening Dimension**



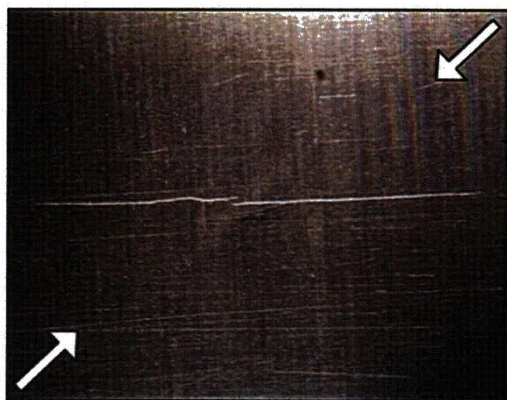
**Figure B.91 - Sample 5  
Diffuse On-Axis Lighting**



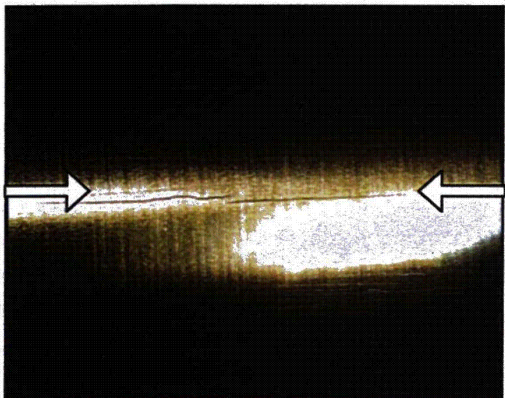
**Figure B.92 - Sample 5  
Diffuse Ring Lighting**



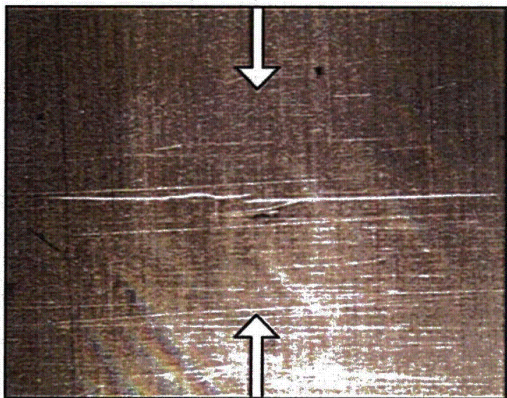
**Figure B.93 - Sample 5  
Spotlighting from Indicated Directions**



**Figure B.94 - Sample 5  
Spotlighting from Indicated Directions**



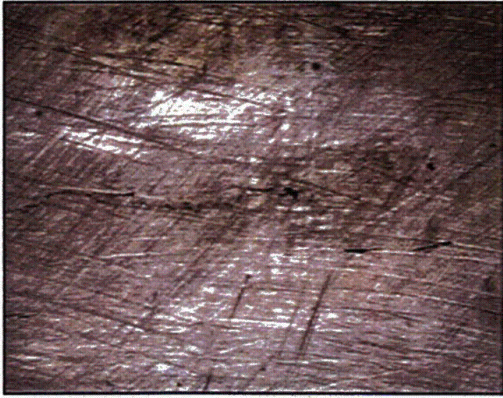
**Figure B.95 - Sample 5  
Spotlighting from Indicated Direction**



**Figure B.96 - Sample 5  
Spotlighting from Indicated Direction**



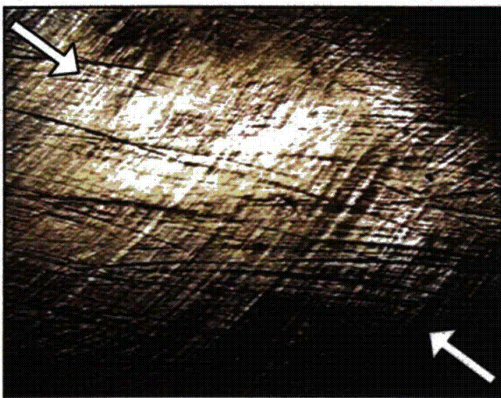
**Sample 6 – Unpolished – 50- $\mu$ m Crack Opening Dimension**



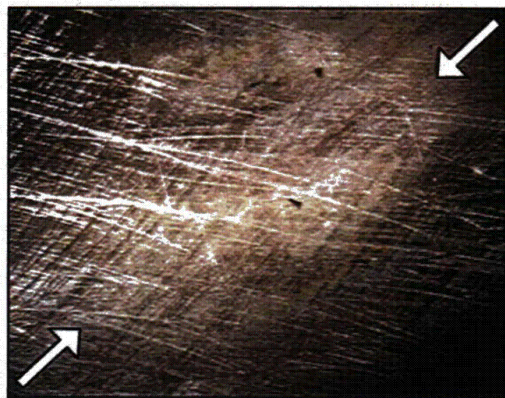
**Figure B.97 - Sample 6  
Diffuse On-Axis Lighting**



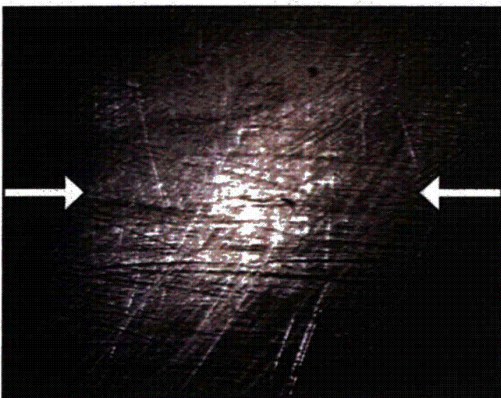
**Figure B.98 - Sample 6  
Diffuse Ring Lighting**



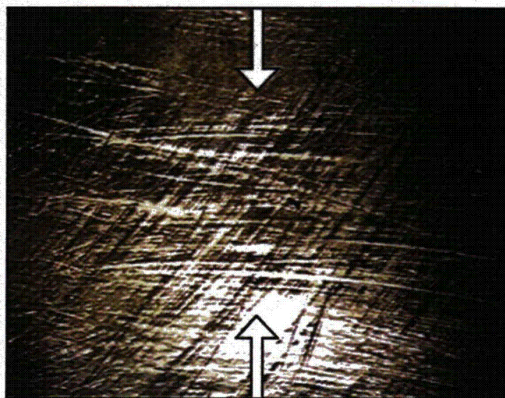
**Figure B.99 - Sample 6  
Spotlighting from Indicated Directions**



**Figure B.100 - Sample 6  
Spotlighting from Indicated Directions**



**Figure B.101 - Sample 6  
Spotlighting from Indicated Direction**



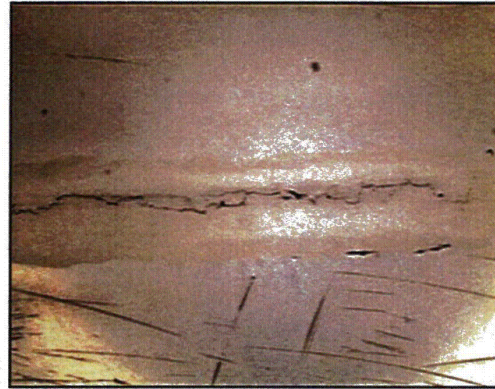
**Figure B.102 - Sample 6  
Spotlighting from Indicated Direction**



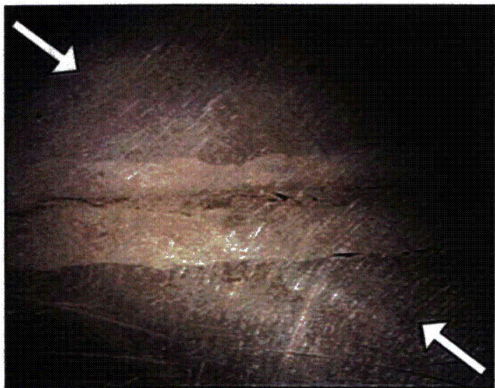
**Sample 6 – Polished – 50- $\mu$ m Crack Opening Dimension**



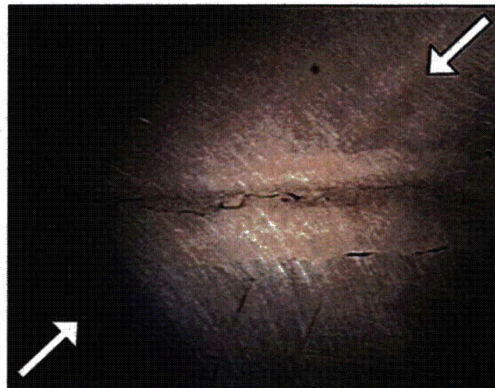
**Figure B.103 - Sample 6  
Diffuse On-Axis Lighting**



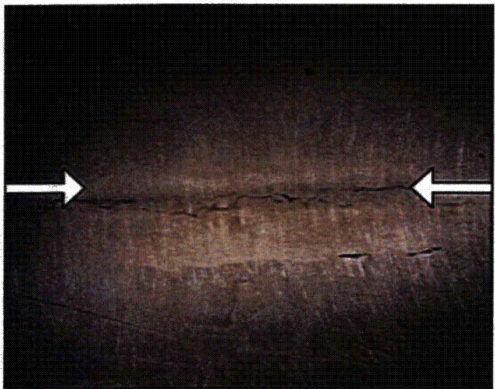
**Figure B.104 - Sample 6  
Diffuse Ring Lighting**



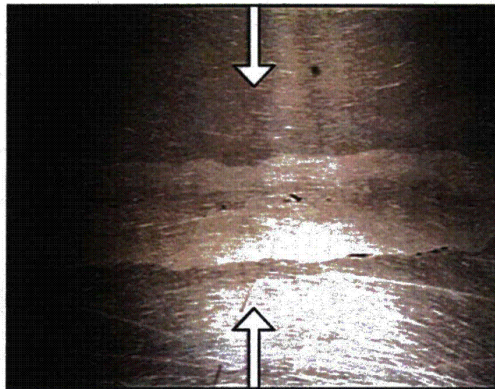
**Figure B.105 - Sample 6  
Spotlighting from Indicated Directions**



**Figure B.106 - Sample 6  
Spotlighting from Indicated Directions**



**Figure B.107 - Sample 6  
Spotlighting from Indicated Direction**



**Figure B.108 - Sample 6  
Spotlighting from Indicated Direction**



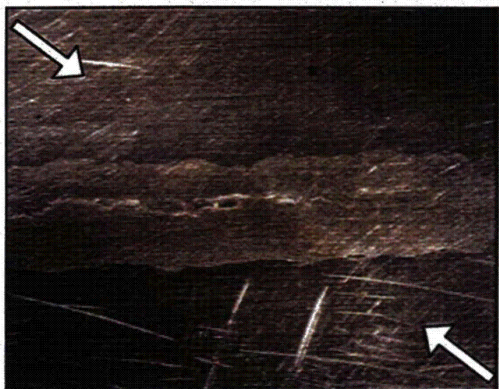
**Sample 6 – Horizontal Scratching – 50- $\mu$ m Crack Opening Dimension**



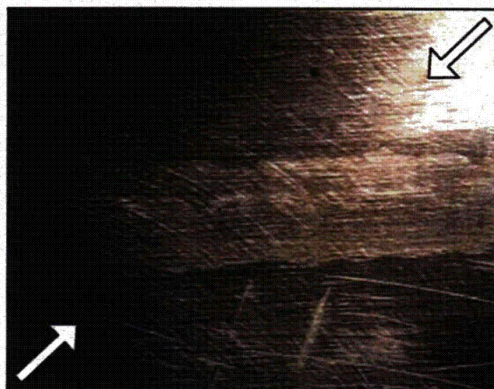
**Figure B.109 - Sample 6  
Diffuse On-Axis Lighting**



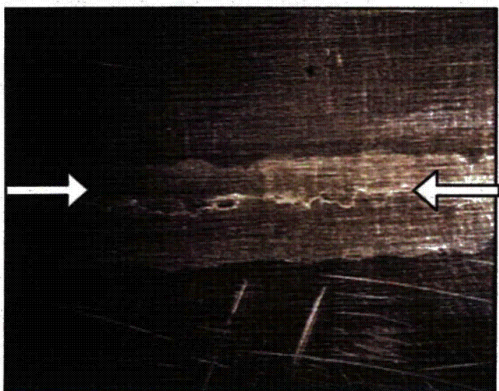
**Figure B.110 - Sample 6  
Diffuse Ring Lighting**



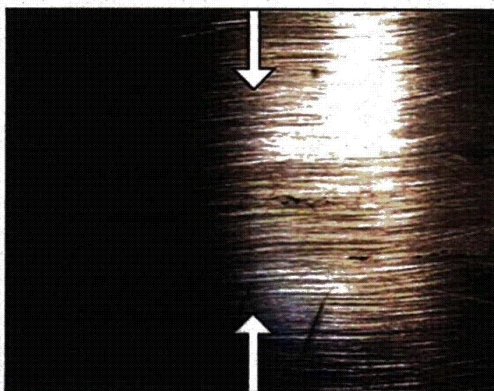
**Figure B.111 - Sample 6  
Spotlighting from Indicated Directions**



**Figure B.112 - Sample 6  
Spotlighting from Indicated Directions**



**Figure B.113 - Sample 6  
Spotlighting from Indicated Direction**



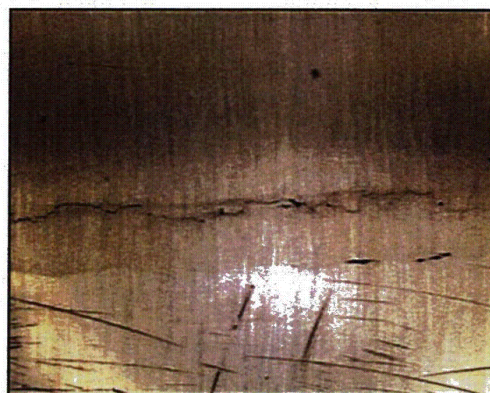
**Figure B.114 - Sample 6  
Spotlighting from Indicated Direction**



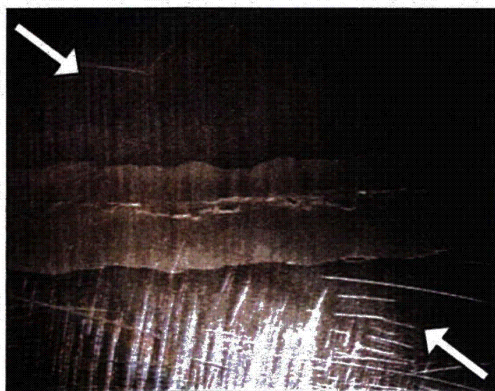
# Sample 6 – Vertical Scratching – 50- $\mu$ m Crack Opening Dimension



**Figure B.115 - Sample 6  
Diffuse On-Axis Lighting**



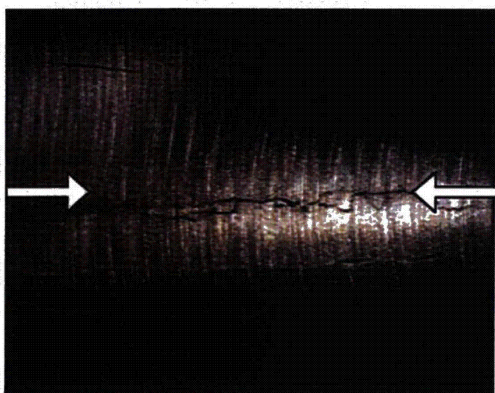
**Figure B.116 - Sample 6  
Diffuse Ring Lighting**



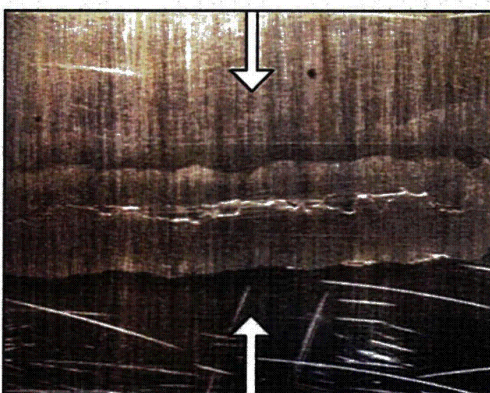
**Figure B.117 - Sample 6  
Spotlighting from Indicated Directions**



**Figure B.118 - Sample 6  
Spotlighting from Indicated Directions**



**Figure B.119 - Sample 6  
Spotlighting from Indicated Direction**



**Figure B.120 - Sample 6  
Spotlighting from Indicated Direction**



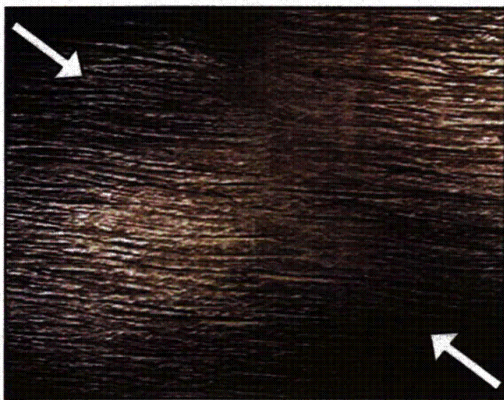
**Sample 7 – Unpolished – 10- to 75- $\mu$ m Crack Opening Dimension**



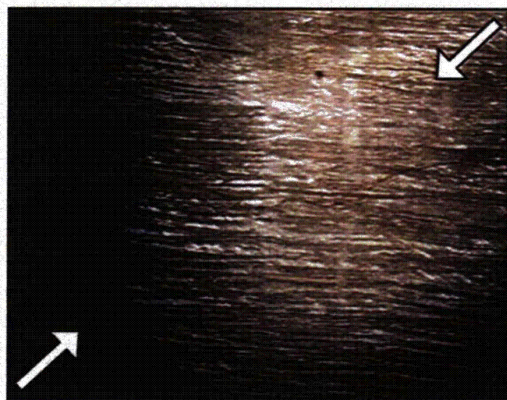
**Figure B.121 - Sample 7  
Diffuse On-Axis Lighting**



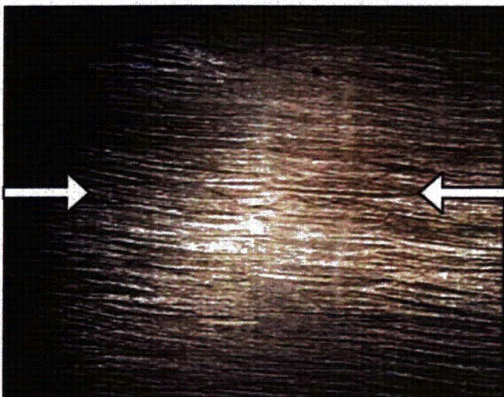
**Figure B.122 - Sample 7  
Diffuse Ring Lighting**



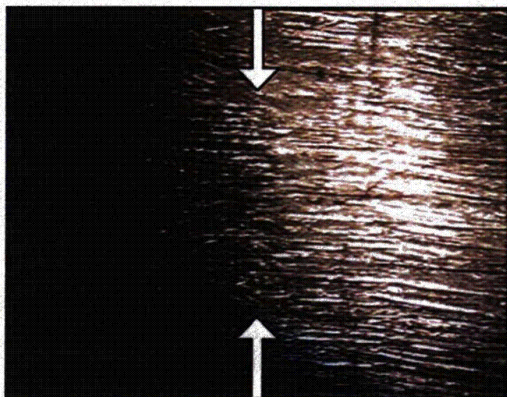
**Figure B.123- Sample 7  
Spotlighting from Indicated Directions**



**Figure B.124 - Sample 7  
Spotlighting from Indicated Directions**



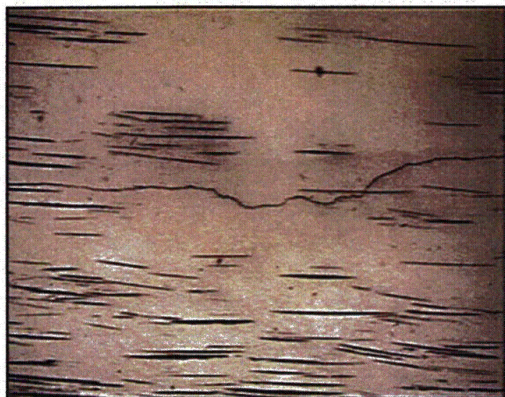
**Figure B.125 - Sample 7  
Spotlighting from Indicated Direction**



**Figure B.126 - Sample 7  
Spotlighting from Indicated Direction**



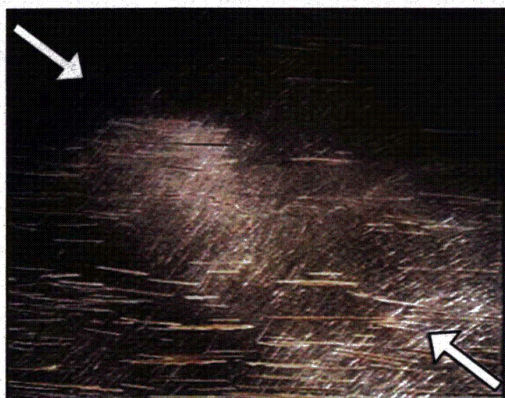
Sample 7 – Polished – 10- to 75- $\mu$ m Crack Opening Dimension



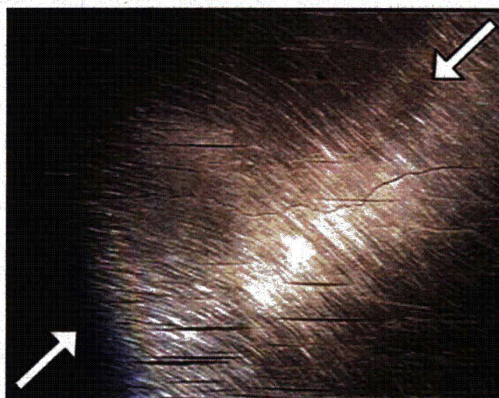
**Figure B.127 - Sample 7**  
**Diffuse On-Axis Lighting**



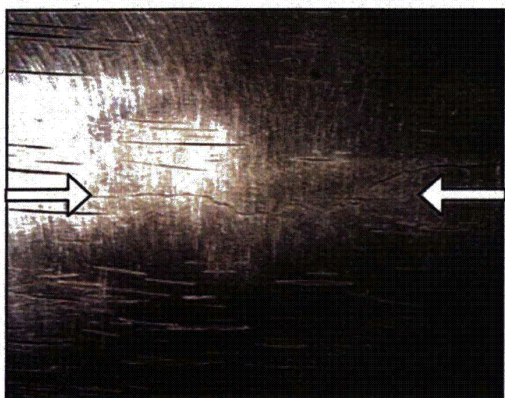
**Figure B.128 - Sample 7**  
**Diffuse Ring Lighting**



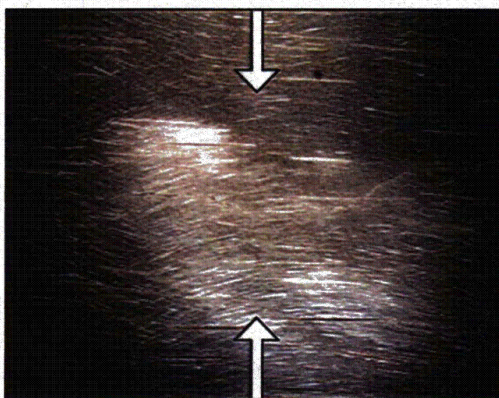
**Figure B.129 - Sample 7**  
**Spotlighting from Indicated Directions**



**Figure B.130 - Sample 7**  
**Spotlighting from Indicated Directions**



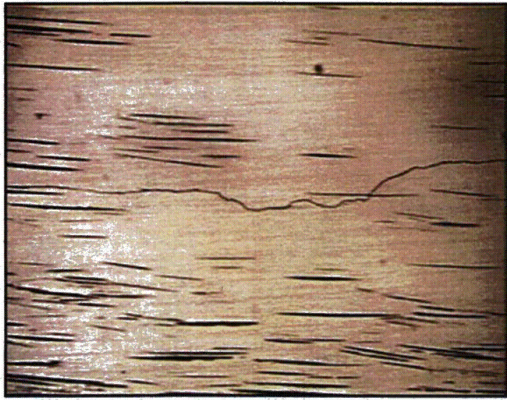
**Figure B.131 - Sample 7**  
**Spotlighting from Indicated Direction**



**Figure B.132 - Sample 7**  
**Spotlighting from Indicated Direction**



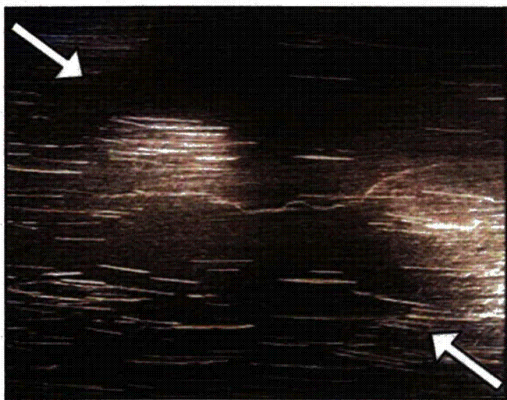
**Sample 7 – Horizontal Scratching – 10- to 75- $\mu$ m Crack Opening Dimension**



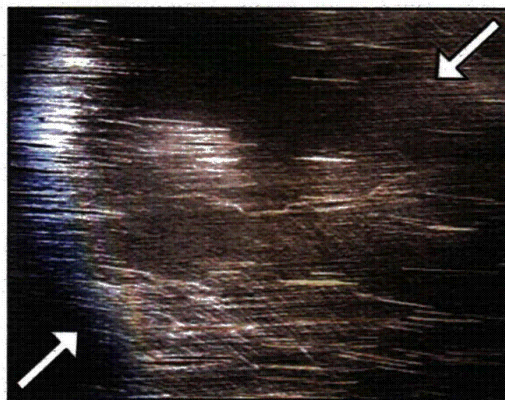
**Figure B.133 - Sample 7  
Diffuse On-Axis Lighting**



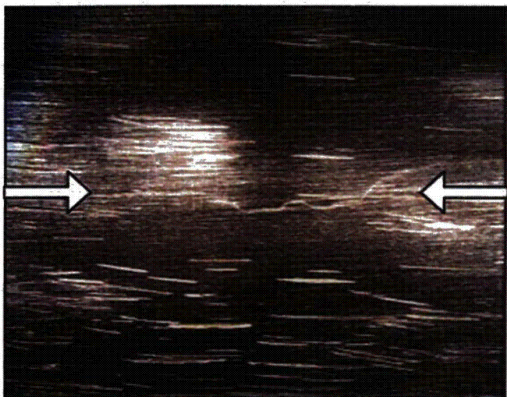
**Figure B.134 - Sample 7  
Diffuse Ring Lighting**



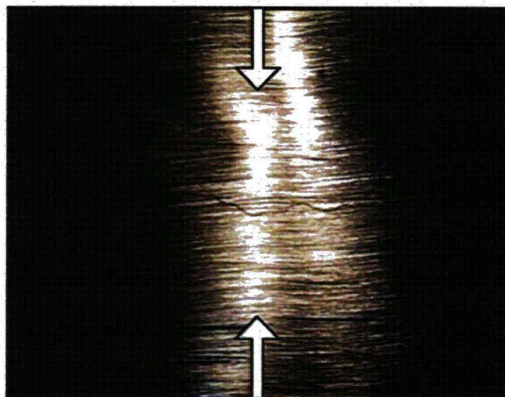
**Figure B.135 - Sample 7  
Spotlighting from Indicated Directions**



**Figure B.136 - Sample 7  
Spotlighting from Indicated Directions**



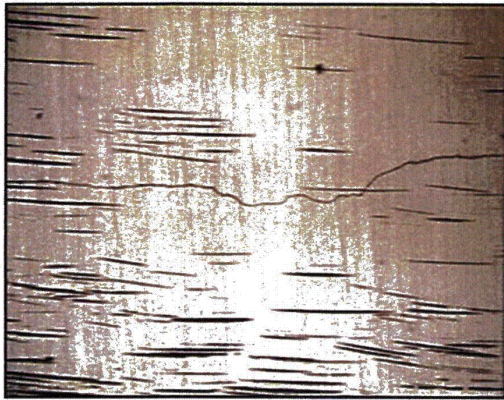
**Figure B.137 - Sample 7  
Spotlighting from Indicated Direction**



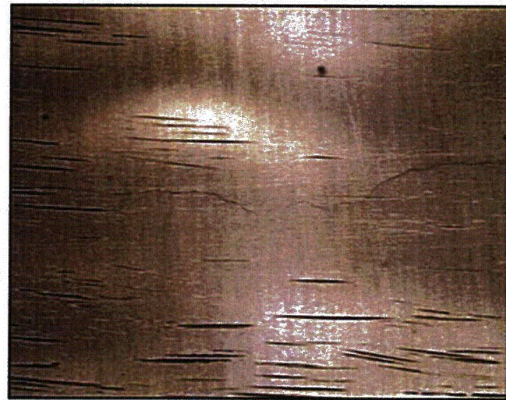
**Figure B.138 - Sample 7  
Spotlighting from Indicated Direction**



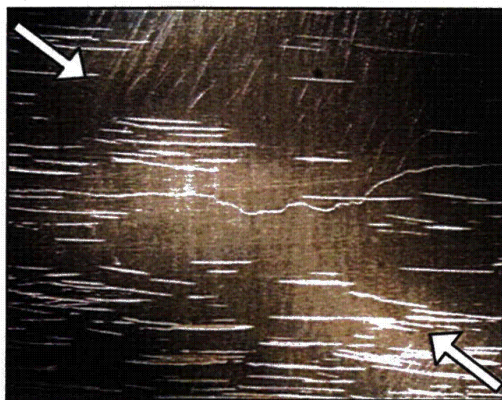
**Sample 7 – Vertical Scratching – 10- to 75- $\mu$ m Crack Opening Dimension**



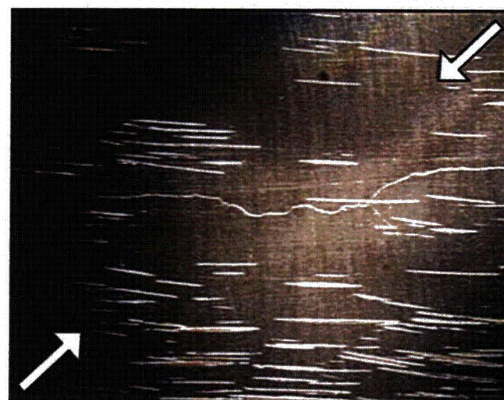
**Figure B.139 - Sample 7  
Diffuse On-Axis Lighting**



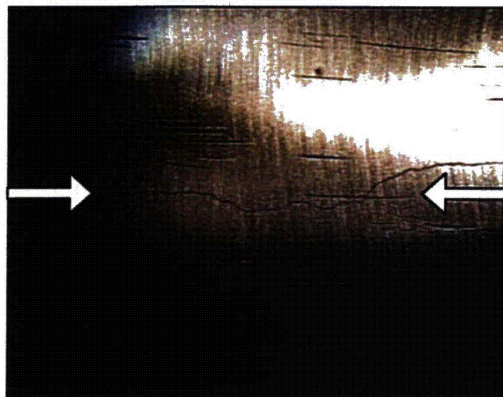
**Figure B.140 - Sample 7  
Diffuse Ring Lighting**



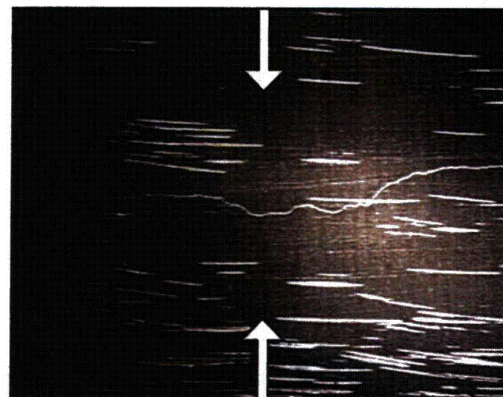
**Figure B.141 - Sample 7  
Spotlighting from Indicated Directions**



**Figure B.142 - Sample 7  
Spotlighting from Indicated Directions**



**Figure B.143 - Sample 7  
Spotlighting from Indicated Direction**



**Figure B.144 - Sample 7  
Spotlighting from Indicated Direction**