

# ZL-56

## Level 4 Water Washable Fluorescent Penetrant

An ultra-high sensitivity penetrant (Level 4), ZL-56 fluorescent water-washable penetrant is safe for use on alloys in engineering and aerospace use, including aluminum, steel, nickel and titanium. ZL-56 is designed for non-porous and highly machined components. Developers recommended are ZP-4B powder, ZP-9F non-aqueous, SKD-S2 non-aqueous and ZP-5B water suspendible.

ZL-56 is listed on the QPL SAE AMS 2644 Qualified Product List.



### BENEFITS

- Bright, high-contrast indications
- Ideal for critical part inspection

### APPLICATIONS

**Defect location:** open to surface

**Ideal for:**

- Critical components
- High-stress parts
- Smooth, machined surface finish
- Non-porous surfaces

**Defect examples:**

- Finished surface cracks
- Scratches

### SPECIFICATION COMPLIANCE

- AECL
- AMS 2644
- ASME
- ASTM E1417
- ASTM E165
- Boeing BAC 5423 PSD 6-46 or 8-4
- Boeing PS-21202
- MIL-STD-2132
- MIL-STD-271
- NAVSEA T9074-AS-GIB-010/271
- QPL SAE AMS 2644

### PROPERTIES

Flash Point	> 200°F / 93°C
Density	1.01 g/cc / 8.40 lb/gal
Viscosity (at 100°F / 38°C)	16.85 cs
NPE-Free	Yes

### USE RECOMMENDATIONS

NDT Method	Penetrant Testing, Fluorescent
Type	1
Method(s)	A / C
Sensitivity Level	4, ultrahigh sensitivity
Required Equipment	UV light source
Usage Temperature	40 to 125°F / 5 to 52°C
Storage Temperature	50 to 86°F / 10 to 30°C

### PACKAGING

5 gal / 18.9 L pail	01-3267-40
55 gal / 208 L drum	01-3267-45