

LETTERKENNY ARMY DEPOT WELDING MATERIALS LAB



Our welding materials lab consists of multiple American Welding Society-certified weld inspectors and non-destructive testing, or NDT, level-3 examiners capable of qualifying procedures under commercial and military standards, including 3040 (steel armor) and 3057 (aluminum armor).

TESTING CAPABILITIES:

Destructive:

- Bending
- Tensile
- Macro-etch
- Charpy

Non-destructive:

- Visual inspection
- Liquid penetrant
- Magnetic particle
- Eddy current

MATERIAL COMPOSITION IDENTIFICATION FOR REVERSE ENGINEERING:

Laser-induced breakdown spectroscopy:

Capable of determining the elemental composition of steel and stainless steel alloys by detecting carbon content


X-ray fluorescence:


Testing capabilities on any alloy

Hardness testing:

Different scales, including: Brinell, Rockwell-B and Rockwell-C

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