

April 27, 2017

Supplier Quality Notice Ballistic Material Hardness Testing

The Contract Deliverable Requirement (CDR) Manual clause 034, (see excerpt below), requires micro hardness testing to determine the heat affected zone hardness for all Ballistic Material Metal and Composites. This requirement has been modified by Materials Engineering and the CDR Manual will be updated with the next revision release.

Effective immediately the requirement for Micro Hardness will no longer be the sole hardness test requirement to determine the hardness in the heat affected zone. Additional hardness tests i.e. HB or HRC hardness testing will also be an acceptable alternative to determine the hardness of the heat affected zone. This requirement will be incorporated into the CDR Manual with the next revision release.

The current Contract Deliverable Requirement Manual (CDR) (Rev 10, Dated February 8, 2017) Clause 034 reads as follows: (see manual for full paragraph description)

034 Ballistic Requirements- Metal and Composite Materials

FIRING RECORDS (Plate and Composite)...

- Heat affected zone (HAZ) hardness to be determined by micro hardness indentation at the mid-length of the cut edge. 5 measurements shall be taken, equally spaced, from the cut edge to a distance of 1.2T or .625 inches (whichever is less).

In summary, effective immediately the requirement for Micro Hardness will no longer be the sole hardness test requirement to determine the hardness in the heat affected zone. Additional hardness tests i.e. HB or HRC hardness testing will also be an acceptable alternative to determine the hardness of the heat affected zone.

If you need additional information you may contact the undersigned or your assigned SQE as applicable.

Respectfully,

Tom Frazho
Supplier Quality Manager
BAE Systems / Platforms & Services
34201 Van Dyke Avenue
Sterling Heights, MI. 48312
Office: 586.795.7551
Email: thomas.frazho@baesystems.com