

Technical Requirements for
PENCIL, LEAD/GRAPHITE, WITH ERASER

PRODUCT SPECIFICATIONS

- Wood cased
- Hardness: HB or 2
- Lead/Graphite Diameter (min.): 2mm
- Ferrule: non-corrosive material which crimps the eraser securely to the casing
- Wood Casing: softwood, coated, free from defects as cross grains, interlocked grains, warpage knots and the like; and shall permit easy sharpening.
- The eraser shall not be abrasive and shall provide clean erasures.
- Lead/Graphite Breaking Strength (min.): 6.86N
 - Test Method: A.4 PNS 1413:2009

EVIDENCE and VERIFICATION

- **Documentary Evidence to be submitted during Post-qualification:**
 - Valid test report from a government laboratory testing center or government accredited private laboratory testing center or third party laboratory testing center. In case there is no available government laboratory center or the required testing method is not available, the test may be conducted by a government accredited private testing center; or if still not available, by a third party laboratory testing center.
 - Valid test report showing compliance to the following parameters:
 - Lead/Graphite Breaking Strength (min.): 6.86N
 - Test Method: A.4 PNS 1413:2009
- **A Confirmatory Test during delivery** from a government laboratory testing center or government accredited private laboratory testing center or third party laboratory testing center. In case there is no available government laboratory center or the required testing method is not available, the test may be conducted by a government accredited private testing center; or if still not available, by a third party laboratory testing center.
 - Valid test report showing compliance to the following parameters:
 - Lead/Graphite Breaking Strength (min.): 6.86N
 - Test Method: A.4 PNS 1413:2009
- **In-House Test:**
 - Wood cased
 - Hardness: HB or 2

- o Lead/Graphite Diameter (min.): 2mm
- o Ferrule: non-corrosive material which crimps the eraser securely to the casing
 - Remove the ferrule from the pencil and immerse the pencil in a 5% sodium chloride solution for five (5) hours.
 - Thereafter, take out the ferrule and place it on a table without drying it.
 - Let it rest for one (1) hour. No rust shall develop on the ferrule after one (1) hour.

- Procedure for making 5% Sodium Chloride Solution:
 - o Weigh five (5) grams of sodium chloride. Pour it into a graduated cylinder or volumetric flask containing about 80 ml of water. Once the sodium chloride has dissolved completely (swirl the container gently if necessary), add water to bring the volume up to the final 100 ml.

- *Caution: Do not simply measure 100ml of water and add 5g of sodium chloride. This will introduce error because adding solid will change the final volume of the solution and throw off the final percentage.*

- o Wood Casing: softwood, coated, free from defects as cross grains, interlocked grains, warpage knots and the like; and shall permit easy sharpening.
- o The eraser shall not be abrasive and shall provide clean erasures.
- Two (2) boxes with marking/labeling shall be provided by the bidder during the submission of additional post-qualification documents for verification of the product specifications.

PACKAGING

- One (1) dozen per box
Twelve (12) boxes per pack or Standard packaging of the manufacturer.
- Additional Requirement on Packaging, refer to the attached Annex "A"

MARKING/LABELING

- Shall conform with the minimum Marking and Labeling Requirements under Article 77 of Republic Act 7394 (Consumer Act of the Philippines) whichever is/are applicable among those requirements to this item.

REFERENCES

- A.4 PNS 1413:2009
- PNS 1162:2008 for the Corrosion Resistance Test

Handwritten initials and marks in blue ink, including "li", "as", "pc", "NH", "B", "V", "p", and a star symbol.