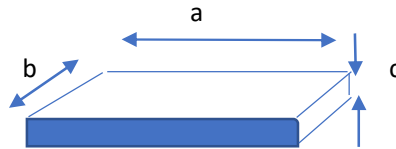




## NICKEL RELEASE TEST SAMPLE STANDARD



$$\text{TOTAL Surface Area} = 2ab + 2ac + 2bc \text{ (Total SIX surfaces)}$$

All SIX surfaces of the rectangular strip will be exposed to the solution for 7 days.

Total Nickel release is measured in microgram from the test solution by all these SIX surfaces.

The Nickel release test measured by microgram ( $\mu\text{g}$ ) release per square centimeter ( $\text{cm}^2$ ) per one week.

United used the test samples are in perfect rectangular shape with uniform thickness, cast and finished in porosity free under 40x for easy to measure the area for calculation in square centimeter for all six sides.

### SOME CONDITIONS TO PREPARE THE TEST SAMPLE TO SUBMIT FOR NICKEL RELEASE TESTING.

1. The test sample should be minimum 6 gram with no restriction on shape or size.
2. The test sample should be shape for easy to measure the area for calculation.
3. The test sample should be totally round (spherical) or cubic / rectangular with thickness / square with thickness for easy total surface area calculation.
4. The test sample should be porosities free in all area.
5. The test sample should **not** be rolled / fabricated / plated / heat-treated.
6. The test sample should be in as cast condition, grinding, polishing and finishing are allowed.
7. Example size it may be 2 cm. long x 2 cm. wide x 0.2 cm. thickness.
8. The test sample will not be any scratches / porosities or any other surface defects in all sides.