

# ABI Precious Metals

## Sterilite™ Sterling Products

### Performance Characteristics Data

<u>Alloy</u>	<u>Tarnish Resistance</u>	<u>Hardness as Cast</u>	<u>Hardness Heat Treated</u>	<u>Comment</u>
Regular Sterling	X	65R/ 76V	72R/ 87V	Casting Fire Scale
Sterilite 122	4X	55R/ NA	77R/ 99V	High Cast Brightness, good casting properties
Sterilite 330	4 X	48/R NA	NA	Forgiving casting properties
Sterilite 319	7X	54R/ NA	73R/ 89V	High Cast Brightness
Sterilite 250	6X	65R/ 75V	77R/ 99V	Excellent Flow Properties, Casting/Rolling Alloy High Tarnish Resistance
Sterilite 256	4X	67R/ 79V	67R/ 79V	Good Flow Properties Forgiving Casting Properties
Sterilite 258	5X	67R/79V	67R/79V	Excellent for torch casting
Sterilite 400	3X	68R/ 81V	81R/ 111V	Low De-Ox, Forgiving Casting Properties
Sterilite 180	X	73R/ 89V	84R/ 127V	Spring Alloy, No De-Ox

**Tarnish Resistant Test-** Sulfur fume test with 10% liver of sulfur in distilled water at 120F. This test simulates real life tarnishing conditions and is widely accepted by the industry. Regular sterling was used as the control sample with a tarnish resistance of X (4 months). The 250 alloy at 6X would translate into approximately 24 months of tarnish resistance.

**Hardness Test-** All alloys were cast with a controlled size flask and hardness disks located in the same location of each tree. The flask was quenched in 20 minutes on all pieces to ensure consistency. Hardness tests were evaluated using Rockwell ® T-15 scale and Vickers (V) scale. The disks were tested by diamond probe in several locations with the final result being the average of all tests.

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