

Appendix: Photos of Scored Coupons

Updated: 10/01/2020

This photo library shows photos of scored copper coupons that were aged 28 days in the Met's current Oddy test system (Method: 20190226_OT_1). This method involves the hanging of coupons from laser sintered nylon holders. The coupons are unfolded and flattened for scoring and photographing. Photographs of the coupons are taken separately with two different light sources—one is a diffuse lighting meant to distinguish colors and the other is a glancing angle light source meant to pick-up on surface textures. The light source techniques are abbreviated as "Si" for diffuse light and "GA" for glancing angle light. See table below for a key. "GA" photos are only displayed if they show more detail than "Si" photos. Coupon photos are labelled with the abbreviation of the light source that was used to capture the photo. If a glancing-angle-photo appears, it is shown next to its corresponding diffuse-lighting-photo.

Photo Lighting Set-up Abbreviation Key	
Si	Diffuse lighting meant to distinguish colors.
GA	Glancing angle light meant to pick-up on surface textures.

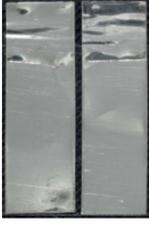
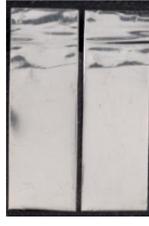
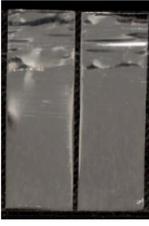
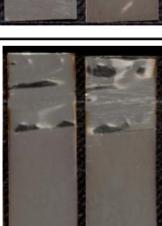
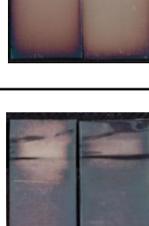
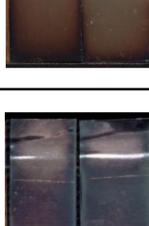
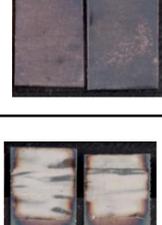
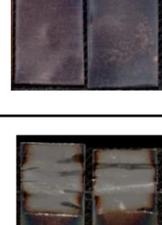
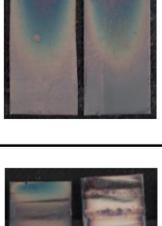
The following ratings are used to assess non-control coupons:

Permanent (P) rating: The material tested may be used indefinitely in the presence of art.

Temporary (T) rating: The material is safe for use near but not in contact with art for up to six months.

Unsuitable (U) rating: The material should not be used in contact with or near art and another material should be found.

Silver Corrosion Library:

Corrosion: Definition	Intensity	Rating	Side Angle	Glancing Angle	Comments
Control	N/A	N/A			Control coupons from jars without sample material – no visible corrosion
White Haze: a deposit that appears white and matte when viewed from certain angles	Light	P			Light white deposit overall; not easily photographed
	Heavy	T			Heavy white haze visible in the glancing angle view as a patchy white matte coating
Orange Haze: a deposit that appears yellow/orange and matte when viewed from certain angles	Light	T			Light orange deposit overall; not easily photographed
	Heavy	T			Heavy orange deposit overall
Yellow Tarnish: a change in color without the loss of reflectivity that results in a yellow hue	Very Slight	T			Very slight yellow tarnish on the lower half of the coupons
	Slight	T			Slight yellow tarnish overall
Purple Tarnish: a change in color without the loss of reflectivity that results in a purple hue	Very Slight	T			Very slight purple tarnish at the top of the coupons; also slight yellow tarnish overall
	Slight	U			Slight purple tarnish on the bottom half and at the edges; also slight yellow tarnish overall
	Moderate	U			Moderate purple tarnish at the edges fading to yellow tarnish in the center
	Extreme	U			Extreme purple tarnish overall
Rainbow Tarnish: a change in color without the loss of reflectivity that results in a rainbow-like color gradient	N/A	U			Rainbow tarnish overall
Black Tarnish: a change in color that results in a black hue	N/A	U			Black tarnish at the edges and bottom third; also rainbow tarnish at the top