



# Northstar Glassworks, Inc.

## Boro News Newsletter

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## Millennium Moss

### Introduction

Greetings! Fear no more the absence of a sparkly green! Northstar is proud to introduce NS-73 Millennium Moss, the first new color in our aventurine series. In the months to come we plan on introducing new colors to the aventurine family, offering a whole line of sparkly colors. In this newsletter we will explore the working properties of NS-73 Millennium Moss and those future non-striking aventurine colors. This color family will definitely expand your horizon!

### What is Aventurine?

When glass is glittery or sparkly in appearance it is referred to as aventurine. Suspended metal flecks in the body of the glass create the glittery appearance. Metal salts that are added to the batch of glass create the flecks. By carefully controlling the temperature and oxidation/reduction state of the glass, the metal salts return to oxide form and crystallize. Due to the different indices of refraction the metal crystals have, they refract and reflect the light differently causing the glass to appear to shimmer, yielding the aventurine effect. The size of the platelets suspended in the glass dictate how sparkly the glass will be. Larger platelets yield a more glittery appearance; whereas smaller platelets, such as those formed in the NS-21 Moss, yield a less pronounced sparkle. The quantity of platelets formed in the glass dictates its intensity and opacity of the resultant color.

In traditional glass making, the most common elements for making aventurine are copper, iron, chromium, and gold. The aventurine effect is also present in naturally occurring geological formations. Aventurine, or Aventurine mineral, is a type of quartz that contains specks of mica and/or iron oxide. The types of naturally occurring aventurine minerals got their names from the sparkly "aventurino" glass of

Murano, Italy. Various types of aventurine minerals are present only in certain locations around the world and used in jewelry and as religious adornment.

### The Color

What sets this color apart from NS-21 Moss is the intensity of the aventurine effect. Because the platelets that form in NS-73 Millennium Moss are larger than those formed in the NS-21 Moss, the aventurine effect is much more pronounced, yielding a far more glittery glass. The other major advantage with NS-73 Millennium Moss is the consistency of sparkle in all rods. In addition to its consistency, this color's production is not limited by a perishable supply of raw material, NS-73 Millennium Moss will be readily available as long as it is needed!

### Workability

NS-73 Millennium Moss, and all other non-striking aventurine colors to come, share similar working properties. They are atmospherically stable and will not dull or change in any flame. They will have a smooth creamy feel, allowing for easy application without boiling. The C.O.E. of these colors is acceptable for inside out as well as sculptural applications, making them a very versatile color family.

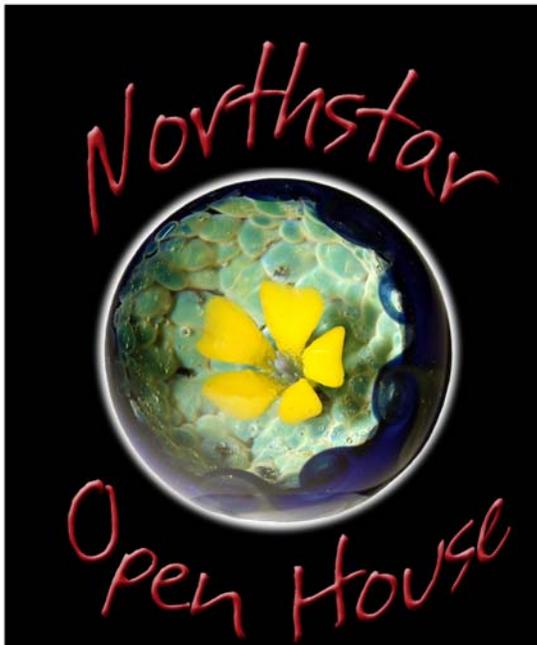
### Application

NS-73 Millennium Moss can be used in the same applications as the original NS-21 Moss. In any application this color will add great vibrancy to your art! Due to its enhanced aventurine effect, even a thin coating of this color demonstrates its glittery-ness. The other aventurine colors that will be released are designed for specific applications and will come in various strengths (intensities). This will allow you to

select a specific color and strength suitable to your desired application. Be sure to try this family of colors with overlays of transparent colors and an opaque backing. Colors such as NS-19 Light Cobalt, NS-24 Transparent Green, NS-14 Irrid, and NS-34 Extra Light Yellow, create exciting new effects when used in combination with our new aventurine colors.

### Closing

We hope you have fun with the NS-73 Millennium Moss and stay tuned for more exciting new aventurine colors to come! There is a lot in store! So until next time, explore the NS-73 Millennium Moss, try it with your old favorites, and see what new effects you can come up with.



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