

	<h1>Buntrock Industries, Inc.</h1> <p>Investment Casting Supplies</p>	Document#: 7.36
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Rev	Description of Change	Author	Date
0	Initial Release	Joe Norvell	7/30/14

1.0 Scope:

1.1 This procedure describes the method for sampling a yttria blend during the mixing process.

2.0 Purpose:

2.1 This procedure is used to obtain a representative sample of a yttria blend so that the particle size distribution can be tested and so that the customer can be provided with a representative sample.

3.0 Hazard and Safety:

3.1 Consult the Material Safety Data Sheet (MSDS) for required handling procedures and Personal Protective Equipment (PPE) required.

4.0 Equipment:

4.1 Two 50 ml flat bottomed test tubes with caps.

4.2 Small metal spatula.

5.0 Procedure:

5.1 Mix a blender load of yttria.

5.2 When you first begin to transfer the mixed blender load of yttria into the bucket, take a small scoop out and place it in one of the test tubes.

5.3 Continue to fill up the bucket with yttria and continue putting small scoops in the test tube. Take a total of five samples from each blender load.

5.4 It takes two blender loads to make 55-lbs of blended yttria, so make another blender load.

5.5 Sample this blender load just like the first one so that ten total samples are taken for each bucket.

5.6 After taking ten total samples, roll and invert the test tube for about a minute in order to homogenize the sample.

5.7 Take a scoop of blend out and put it in the other test tube.

5.8 Mix the blend again then take another scoop and put it in the other test tube.

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5.9 Continue mixing and transferring until both test tubes have about the same amount of material in them.

5.10 Label both samples with the blended yttria lot number

5.11 Do a PSD on one of the samples and place the other sample in a plastic bag then in the bucket that's going to the customer.

6.0 References:

6.1 None.