



Birchwood Laboratories LLC
7900 Fuller Road
Eden Prairie, MN 55344
Tel: 952 937 7931
Fax: 952 937 7979
www.birchwoodtechnologies.com

PRESTO BLACK® PBR-4
Instructions for Dilution

PRODUCT DESCRIPTION

PRESTO BLACK® PBR-4 is a super-concentrate, designed to be diluted with water by a distributor, to manufacture PRESTO BLACK® PBRF or PRESTO BLACK® PBR blackening concentrates to supply to the end-user. The PBR-4 contains two times the overall concentration of PBRF and four times the overall concentration of PBR.

A. PROCEDURE FOR MANUFACTURING PRESTO BLACK® PBRF

To produce 55 gallons of PRESTO BLACK PBRF, a two-fold dilution of PBR-4 is necessary. In a plastic or 316 stainless steel mixing tank:

Measure: 229.49 pounds, or 27.5 gallons, of deionized water.
Add: 255.98 pounds, or 27.5 gallons, of PBR-4 concentrate solution.
Stir well.

B. PROCEDURE FOR MANUFACTURING PRESTO BLACK® PBR

To produce 55 gallons of PRESTO BLACK PBR, a four-fold dilution of PBR-4 is necessary. In a plastic or 316 stainless steel mixing tank:

Measure: 344.23 pounds, or 41.25 gallons, of deionized water.
Add: 128.00 pounds, or 13.75 gallons, of PBR-4 concentrate solution.
Stir well.

QUALITY CONTROL

Check the concentration of the finished product by determining total acidity level:

For PBRF: pipet a 3.00 mL aliquot of the resulting PBRF solution. Titrate to pH 7.00 (on a pH meter). The titration should consume 29.3 – 32.4 mL of 0.1N NaOH reagent.

For PBR: pipet a 3.00 mL aliquot of the resulting PBR solution. Titrate to pH 7.00 (on a pH meter). The titration should consume 14.7 – 16.2 mL of 0.1N NaOH reagent.

Send a copy of the analysis results to Birchwood Technologies®.

BATCH NUMBER

Assign a batch number to the finished product which should be the same as the Birchwood Technologies® batch number taken from the PBR-4 label with the letters “ICR” added as a suffix.

Send a 100mL sample to Birchwood Technologies®, (Attention: Metal Finishing Lab) as a retained sample for our verification and storage.

PACKAGING

The finished product should be packaged in new containers constructed of HDPE (high density polyethylene) with a secure closure and UN certification. Label with the product and warning labels provided. Attach an instruction sheet and Safety Data Sheet in an adhesive envelope on the side of the container. The finished product is now ready for sale.

Before Using This Product – Please Read, Understand and Follow all the Precautions shown on the product label and on the Safety Data Sheet.

NOTE: The information contained herein is provided in good faith and is believed to be correct as of the date below. However, Birchwood Laboratories LLC makes no representation as to the comprehensiveness or accuracy of the information. It is expected that individuals receiving the information will exercise their independent judgment in determining its appropriateness for a particular purpose. Accordingly, Birchwood Laboratories LLC will not be responsible for damages of any kind resulting from the use of or reliance upon such information.

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