Abrasives Blasting Program - Applications

The California Air Resources Board Compliance Division is accepting applications for certification of abrasives for permissible outdoor blasting. Although applications for certification of new abrasives are accepted at any time, submittal during the current renewal period for existing certifications may result in a lower certification fee. In order to ensure that your product will be tested with the products submitted for certification renewal, we will need to receive your abrasives by April 15, 1997.

The purpose of the abrasive certification program is to restrict the abrasive selected for permissible dry outdoor blasting operations in order to reduce the generation of fine particles, which are inhalable and contribute to reduced visibility. In order to be certified, the abrasive must contain not more than one percent, by weight, materials passing a #70 U.S. Standard sieve before blasting. After blasting the abrasive must contain not more than 1.8 percent, by weight, material 5 microns or smaller. The producer or manufacturer of an abrasive which fails the sieve test may choose to demonstrate that the abrasive meets a 20 percent opacity emission limit when blasted. The after-blast criteria must be met in either case. A copy of the regulations and a flowchart of the certification process are enclosed.

Each grade of the abrasive you wish to have certified for permissible outdoor blasting must be submitted separately. Also, if you produce an abrasive at more than one site a sample from each site must be submitted separately. Please complete and return the enclosed application form for all abrasives you wish to submit for recertification this year. Be sure you read the instructions carefully before you fill out the application and ship your product. Products submitted incorrectly will not be tested.

If you wish to have your distributors listed with your certification, you will need to provide a written request that each distributor be listed. The distributors will also need to request in writing that they be listed as distributors for your product.

An invoice for the cost of the test will be sent to you at the completion of the certification testing. Your results will be sent to you upon payment of the invoice. Non-payment of the invoice will result in decertification.

If you have any questions, please call Ms. Kathryn Gugeler at (916) 327-1521. All correspondence should be addressed to me at the post office box below.

Enclosures

James J. Morgester, Chief
Compliance Division
California Air Resources Board
Post Office Box 2815, Sacramento, CA 95812
A. This application must be filled out completely. Please note that the Plant Location must be sufficient to find the facility. A street address is ideal. The Product Composition Declaration is only needed if you sell one product under several names.

B. Send completed application and a Material Safety Data Sheet (MSDS) for each sample to:

Kathryn M. Gugeler  
California Air Resources Board  
Compliance Division  
P.O. Box 2815  
Sacramento, California 95812 USA

If you have any questions, please call Kathryn Gugeler at (916) 327-1521

C. Shipping Instructions:

Ship a minimum 200 lb. sample of each grade of abrasive in five (5) gallon plastic shipping buckets with lids and handles. The contents of each shipping bucket must not weigh more than 40 lbs. Each plastic shipping bucket must be labeled on the outside with the following:

1. Company Name and address  
2. Abrasive name  
3. Plant location.

The above information must also be inserted with the sample inside of each bucket.

Important: SHIP ONLY IN 5 GALLON PLASTIC SHIPPING BUCKETS WITH LIDS AND HANDLES. NO OTHER TYPES OF CONTAINERS WILL BE ACCEPTED.

Important: MATERIAL MUST BE SHIPPED POSTAGE-PAID  
COD SHIPMENTS WILL NOT BE ACCEPTED.

Important: DAMAGED OR BROKEN CONTAINERS WILL NOT BE TESTED

Ship containers to:

Department of Transportation  
Attention: Kathryn Gugeler/CARB  
5900 Folsom Blvd.  
Sacramento, California 95819 USA

1. At the completion of the abrasive certification testing, you will be billed for the cost of your testing. You will be sent your results upon payment of your invoice.
CALIFORNIA AIR RESOURCES BOARD  
Compliance Division  

Application for Certification of Abrasives  
for Permissible Dry Outdoor Blasting

Read instructions on first page before filling out this application

Certification to be issued to:

(Business license name and Fed ID # of organization to receive certification)

(Name(s) of owner or principle partners doing business as above)

Contact Person: (Print if different than above)

Mailing Address:

Abrasives description for certification: (Use another sheet if more space is necessary)

<table>
<thead>
<tr>
<th>Manufacturer's or Trade Name</th>
<th>Brand Name and/or Grade</th>
<th>Plant Location</th>
<th>Abrasive Type</th>
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Manufacturer's or Trade Name  
Brand Name and/or Grade  
Plant Location  
Abrasives Type

Signature of Responsible Person:

Title:

Type or print name:

Telephone Number) (FAX Number) (Date)
Application for Certification of Abrasives for Permissible Dry Outdoor Blasting

Product Composition Declaration

There are no differences between the products named below, except their name. The products named below are all the same chemically and physically, are the same grade, and were mined/produced at the same location using the same processes. These products are all represented by the sample of the product indicated below.

hereby certify under penalty of perjury that this statement is true and correct.

Signature of Responsible Person: ________________________________

Print Name: __________________________________________________

Title: _________________________________________________________

Company: ____________________________________________________

Sample Submitted for:

Print Manufacturer’s or Trade Name and Brand Name and/or Grade on Sample Submitted

Other identical Products to be Listed as Certified:
List each additional Manufacturer’s or Trade Name and/or Grade to be listed for the Product Submitted

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CALIFORNIA CODE OF REGULATIONS

TITLE 17

AIR RESOURCES BOARD

ABRASIVE BLASTING REGULATIONS

June 1, 1991
SUBCHAPTER 6. ABRASIVE BLASTING


92000. Definitions.

For the purposes of this subchapter:

(a) "Abrasives" means any material used in abrasive blasting operations including but not limited to sand, slag, steel shot, garnet, or walnut shells.

(b) "Abrasive blasting" means the operation of cleaning or preparing a surface by forcibly propelling a stream of abrasive material against the surface.

(c) "Abrasive blasting equipment" means any equipment utilized in abrasive blasting operations.

(d) "Air contaminant" includes smoke, charred paper, dust, soot, grime, carbon, fumes, gases, odors, particulate matter, acids, or any combination thereof.

(e) "Certified abrasive" means an abrasive which has been certified by the Air Resources Board (ARB) in accordance with Section 92530.

(f) "Cut-point for fineness" means the smallest United States standard sieve size through which no more than one percent by weight of abrasive material will pass before blasting when tested in accordance with California Test Method No. 202-6, dated July 1, 1982.

(g) "Hydroblasting" means any abrasive blasting using high pressure liquid as the propelling force.

(h) "Multiple nozzles" means more than one nozzle being used to abrasive blast the same surface so that their separate plumes are indistinguishable.

(i) "Permanent building" means a building which is used, in whole or in part, for sandblasting operations.

(j) "Person" means any individual, firm, association, organization, partnership, business trust, corporation, company, contractor, supplier, installer, user or owner, or any State or local governmental agency or public district or any officer or employee thereof. "Person" also means the United States Government or its agencies, to the extent authorized by federal law.

(k) "Sandblasting" means abrasive blasting.
(3) The surface being blasted is situated at its permanent location or no further away from its permanent location than is necessary to allow the surface to be blasted.

(c) Except for testing conducted in accordance with Section 92530 (b)(1)(B) and as otherwise provided in Sections 92510 or 92520, any abrasive blasting operation conducted in accordance with subsections (b)(2) and (b)(3) outside a permanent building must use exclusively:

1) Wet abrasive blasting;
2) Hydroblasting;
3) Vacuum blasting; or
4) Abrasives certified for permissible dry outdoor blasting.


92510. Pavement Marking.

Surface preparation for raised traffic delineating markers and pavement marking removal using abrasive blasting shall comply with at least one of the following performance standards:

(a) Wet abrasive blasting, hydroblasting, or vacuum blasting shall be used;

(b) Dry abrasive blasting for removal or surface preparation for immediate application of pavement markings of less than 1,000 square feet or for surface preparation for raised traffic delineating markers shall use certified abrasives.


92520. Stucco and Concrete.

Abrasive blasting of stucco and concrete shall be performed by wet blasting, hydroblasting, or vacuum blasting with the following exceptions:

Dry blasting with a certified abrasive may be used for

(a) Window and door returns and frames;
(b) Aves, overhangs, and ceilings;
(c) Sweep abrasive blasting except for stucco surfaces;
(d) Completely shrouded structures blast areas that effectively control emissions;
(e) Abrasive cleaning operations, other than aggregate exposure or paint removal related to new concrete construction or repair activity, if such operations are performed onsite.


92530. Certified Abrasives.

(a) The ARB shall certify abrasives which comply with the performance standards set forth in subdivision (b) below. Any person who desires certification of an abrasive shall furnish to the ARB an adequate test sample, together with fees to defray the cost of testing. Each certification of an abrasive shall include the ARB's determination of the original cut-point for fineness of the abrasive. The ARB shall maintain an up-to-date list of certified abrasives. Certification shall not be effective for more than two years. Abrasive materials which are certified on the effective date of this section shall remain certified until September 1, 1992.

(b) Performance Standards.

1) (A) Before blasting the abrasive shall not contain more than one percent by weight material passing a U.S. Standard sieve when tested in accordance with "Method of Test for Abrasive Media Evaluation," Test Method No. California 371-A, dated May 15, 1975.

(B) If the abrasive does not meet the requirements of subdivision (b)(1)(A), the person who desires certification of the abrasive may use an alternative demonstrate within the State of California to the satisfaction of the ARB that the abrasive meets the 20 percent opacity emission limit when tested in accordance with the "Visible Emission Evaluation Test Method for Selected Abrasives Used In Permissible Dry Outdoor Blasting," as adopted by the ARB on November 8, 1990 and incorporated herein by reference. The person who desires certification of the abrasive shall be solely responsible for conducting the demonstration.

2) After blasting, the abrasive shall not contain more than 1.8 percent by weight material 6 microns or smaller when tested in accordance with "Method of Test for Abrasive Media Evaluation," Test Method No. California 371-A, dated May 15, 1975.
(c) A used certified abrasive shall not be considered certified for reuse unless the abrasive conforms to its original cut-point for fineness.

(d) A blend of certified abrasives shall be considered certified for purposes of Section 92630(a), unless found not to meet the requirements of Section 92630(b) pursuant to testing initiated by the ARB.

(e) All manufacturers and suppliers of certified abrasives shall legibly and permanently label the invoice, bill of lading and abrasive packaging or container with each of the following:

(1) The manufacturer's name or identification trade name;

(2) The grade, weight proportion of components in abrasive blends, brand name of the abrasive or brand names and grades of components of abrasive blends; and

(3) The statement "ARB certified for permissible dry outdoor blasting." This subsection shall become effective six months after November 8, 1990.

Abrasive Certification
Single Product Flowchart
Test Method No. California 37 -A

1. Abrasive Material - 5 - 40 buckets

2. No. 70 Sieve Test - 2 bags/500 grams
   Pass
   Blast Chamber Test - 4 bags/18,750 grams
   Pass
   Option - Resubmit

3. Option - VEE Alternative Test

4. Specific Gravity - 100 grams
   Pass
   Hydrometer - 100 grams
   Pass
   Specific Gravity - 100 grams
   Hydrometer - 100 grams
   Pass
   1.8% or less by weight 5 microns or smaller

5. 1% or less by wt. material passing a No. 70 Sieve
   Fail
   Notify Vendor
   Option - Fail

6. Option - 5 microns or smaller

7. 20% or less Opacity