

# Recyclable Encapsulated Abrasive Media (in a Compressible Cellular Matrix)

# Recyclable Encapsulated Abrasive Media (in a Compressible Cellular Matrix)

This AMPP standard represents a consensus of those individual members who have reviewed this document, its scope, and provisions. Its acceptance does not in any respect preclude anyone, whether he or she has adopted the standard or not, from manufacturing, marketing purchasing, or using products, processes, or procedures not in conformance with this standard. Nothing contained in this AMPP standard is to be construed as granting any right, by implication or otherwise, to manufacture, sell, or use in connection with any method, apparatus, or product covered by Letters Patent, or as indemnifying or protection anyone against liability for infringement of Letters Patent. This standard represents minimum requirements and should in no way be interpreted as a restriction on the use of better procedures or materials. Neither is this standard intended to apply in all cases relating to the subject. Unpredictable circumstances may negate the usefulness of this standard in specific instances. AMPP assumes no responsibility for the interpretation or use of this standard by other parties and accepts responsibility for only those official AMPP interpretations issued by AMPP in accordance with its governing procedures and policies which preclude the issuance of interpretations by individual volunteers.

Users of this AMPP standard are responsible for reviewing appropriate health, safety, environmental, and regulatory documents and for determining their applicability in relation to this standard prior to its use. This AMPP standard may not necessarily address all potential health and safety problems, or environmental hazards associated with the use of materials, equipment, and/or operations detailed or referred to within this standard. Users of this AMPP standard are also responsible for establishing appropriate health, safety, and environmental protection practices, in consultation with appropriate regulatory authorities, if necessary, to achieve compliance with any existing applicable regulatory requirements prior to the use of this standard.

CAUTIONARY NOTICE: AMPP standards are subject to periodic review and may be revised or withdrawn at any time in accordance with AMPP technical committee procedures. AMPP requires that action be taken to reaffirm, revise, or withdraw this standard no later than five years from the date of initial publication and subsequently from the date of each reaffirmation or revision. The user is cautioned to obtain the latest edition. Purchasers of AMPP standards may receive current information on all standards and other AMPP/NACE/SSPC publications by contacting AMPP Customer Support, 15835 Park Ten Place, Houston, Texas 77084-5145 (Tel: [+1-281-228-6200](tel:+1-281-228-6200), email: [customersupport@ampp.org](mailto:customersupport@ampp.org)).

## Document History:

2023-06-19: Reaffirmed by AMPP Standards Committee (SC) 05, Surface Preparation

2016-08-12: Editorial Revisions

2015-11-24: Revised by SSPC C.2.19

2009-09-01: Issued by SSPC C.2.19, Recyclable Encapsulated Abrasive

AMPP values your input. To provide feedback on this standard, please contact: [standards@ampp.org](mailto:standards@ampp.org)

SSPC-AB 4-2023

©2023 Association for Materials Protection and Performance (AMPP). All rights reserved.

# Recyclable Encapsulated Abrasive Media (in a Compressible Cellular Matrix)

Section 1	Scope .....	4
Section 2	Description .....	4
Section 3	Referenced Standards .....	4
Section 4	Requirements for New Media (Qualification Tests) .....	5
4.1	Grit Requirements .....	5
4.2	Dust Control .....	5
4.3	Surface Profile .....	5
4.4	Water-Soluble Contaminants .....	5
4.5	Oil Content .....	5
4.6	Health And Safety Requirements .....	5
Section 5	Conformance Tests .....	5
Section 6	Quality Control Tests .....	5
6.1	Required Profile .....	5
6.2	Requirements for Recycled Abrasive Working Mix .....	5
Section 7	Documentation .....	6
Appendix A	Notes (Nonmandatory) .....	7

## Section 1: Scope

- 1.1 This standard provides requirements for selecting and evaluating abrasive media encapsulated in a compressible non-uniform cellular matrix used to blast clean steel and other surfaces prior to the application of protective coatings. The standard also includes requirements for quality control of new and recycled media.

## Section 2: Description

- 2.1 **Encapsulated Abrasive Media:** Encapsulated abrasive media consist of natural or manufactured abrasive grains surrounded by a dry, compressible, open-cell material. These abrasives are used to reduce dust generation and ricochet damage to adjacent surfaces when blast cleaning, and to “feather” the edges of intact coating during spot repair procedures of coatings on steel and other substrates. During the recycling process, the media is cleaned to remove abrasive fines and debris, including paint, rust, mill scale, and other contaminants.
- 2.2 **Recycled Abrasive Working Mix:** The working mix develops during blast cleaning and recycling, and is composed of new and recycled encapsulated abrasive media.
- 2.3 **Definitions**

**Qualification tests** are tests that are run to qualify that a material meets the requirements of the standard.

**Conformance tests** are tests that are performed to verify that the material being submitted has the same properties as the material that initially qualified.

**Quality control tests** are field tests that are performed to verify that the material complies with specified requirements immediately prior to use.

## Section 3: Referenced Standards

- 3.1 The latest issue, revision, or amendment of the referenced documents in effect on the date of invitation to bid shall govern unless otherwise specified. Those documents marked with an asterisk (\*) are referenced only in the Appendix A Notes (nonmandatory) and are not requirements of this standard.
- 3.2 If there is a conflict between the requirements of any of the cited referenced standards and this standard, the requirements of this standard shall prevail.

### **AMPP/NACE/SSPC, [www.ampp.org](http://www.ampp.org):**

SSPC-AB 1	Mineral and Slag Abrasives
SSPC-AB 3	Ferrous Metallic Abrasives

### **ASTM International, [www.astm.org](http://www.astm.org):**

ASTM D4940	Standard Test Method for Conductimetric Analysis of Water Soluble Ionic Contamination of Blast Cleaning Abrasives
* ASTM D4417	Standard Test Method for Field Measurement of Surface Profile of Blast Cleaned Steel
ASTM D7393	Standard Practice for Indicating Oil in Abrasives
ASTM E11	Standard Specification for Woven Wire Test Sieve Cloth and Test Sieves