

Free PDF Quiz API - API-936 - Refractory Personnel

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API 936 PRACTICE TEST

1. After refractory specimens have been fully cured and removed from forms and or cut to required dimensions what is then required? Specimen shall be marked with temperature resistant paint (to prevent burn-off during firing), dried, and / or fired.
2. As part of Applicator Qualification Testing, list 4 contractor responsibilities: 1. Scheduling of Materials Qualifications test and delivery of those materials and test results to the site.
 2. Scheduling and execution of work to qualify all equipment and personnel needed to complete installation work, including documentation and verification by the inspector
 3. Preparation and identification of all testing samples and timely delivery to the testing laboratory
 4. Advance notification to the owner of the time and location where work will take place so that this information can be passed on to the inspector
3. As part of refractory installation, list 4 contractor responsibilities: Advance agreement with the owner on all installation details.
 - Execution of installation work
 - Inspector verified documentation of installation records
 - Accountability for installed refractories meeting specified standard
4. Briefly describe metal fiber concentrations and dimension requirements: typically range 1-4wt percent with effective diameters of 0.010 in. - 0.022in (0.5mm - 0.6mm) and lengths 3/4 or 1 in (19mm or 25mm)
5. Briefly describe the procedure for adding metal fibers during lining installation: Loading castable into mixer and pre-mix:
 - Add pre-wet or mixing water
 - Using a dispersing device, such as 1/2" (13mm) hardware mesh, sieve fibers into castable with mixer operating
6. Define Independent Laboratory: refractory testing facility not affiliated with the manufacturer or contractor
7. Define Material Qualification Testing: Pre-installed testing of refractory materials in which production lots of refractories manufactured for a specific installation are sampled and tested to confirm that they meet specified physical property requirements
8. Define Monolithic Refractories: Castable or plastic refractory applied by casting, gunning, or hand/ram packing to form monolithic lining structures
9. Define the Heating Contractor?: The contractor or subcontractor who specialized in the dry out of monolithic refractory linings
10. Describe alternative panels that may be used in lieu of wire mesh basket: Alternatively, panels with enclosed sides may be used in place of the wire basket if the panel dimensions are at least 18in x 18in x 4in (450mm x 450mm x 100mm) and test specimens are cut from the center of the panels to avoid possible rebound traps along the sides of the panels
11. Describe a Test Specimen: Test Specimens are either individual cubes, bars, or plate test pieces used for physical testing
12. Describe oven drying that is required for Heat Setting plastics only: Oven dry (required for heat-setting plastic only) 12hrs minimum at 220F - 250F (104C - 120C) in a forced air convection dryer. Heating to this level shall be per manufacturer's recommendation
13. Describe Oven firing temperatures: Oven fire, heat at 300F per hour (170C per hr) to 1500F (815C) hold for 5hrs at 1500F (815C) cool at 500F per hour (260C per hour) maximum to ambient
14. Describe the beginning gunning operations: Start gunning at the lowest elevation, building up the lining thickness gradually over an area of not more than 10ft 2in (3m2) to full thickness and working in an upward direction to minimize the inclusion of rebound. Rebound material shall not be reused
15. Describe the contractors responsibility for material qualifications testing: Arrange for testing at either an independent laboratory or the manufacturers plant.
 - Direct the work to assure the missing techniques, water contents, ambient temperatures, mix temperatures and so on adequately represent those needed for production installation
16. Describe the density testing procedure as per API 936: Measure specimen dimension to the nearest 0.02in (0.5mm) and weight to the nearest 0.002 lb (1.0g)
 - Calculate density by dividing weight by volume and report in units of pound per cubic ft. or kilograms per cubic meter

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API-936 certification program aims to ensure that individuals working with refractory materials have a thorough understanding of the principles and practices involved in the selection, installation, inspection, and testing of refractory materials. Refractory Personnel certification exam covers a wide range of topics, including different types of refractory materials, their properties, and applications; installation techniques, including curing and drying; and inspection and testing methods, such as visual inspection, ultrasonic testing, and acid digestion.

Achieving the API-936 Certification provides individuals and organizations with many benefits and opportunities. For individuals, the certification is a testament to their knowledge and skills in refractory technology and enhances their professional standing and employability. For organizations, having certified personnel can improve their reputation, competitiveness, and compliance with industry standards and regulations. Furthermore, the certification program allows for continuous learning and improvement, as certified professionals are required to renew their credentials every three years by meeting certain education and experience requirements.

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API Refractory Personnel Sample Questions (Q33-Q38):

NEW QUESTION # 33

A pigment shall be used in the curing compound in order to:

- A. indicate full coverage.
- B. prevent ultraviolet light damage.
- C. help the lining retain heat.
- D. help the lining retain moisture.

Answer: A

Explanation:

Pigment in curing compounds serves a visual function to verify that the applied coating has achieved full and even coverage across the refractory surface. This aids inspectors in confirming compliance with curing requirements.

Reference:API Std 936, Section 6.3.2 - Curing Requirements: "A pigment shall be included in the curing compound to provide visual confirmation of coverage during application."

NEW QUESTION # 34

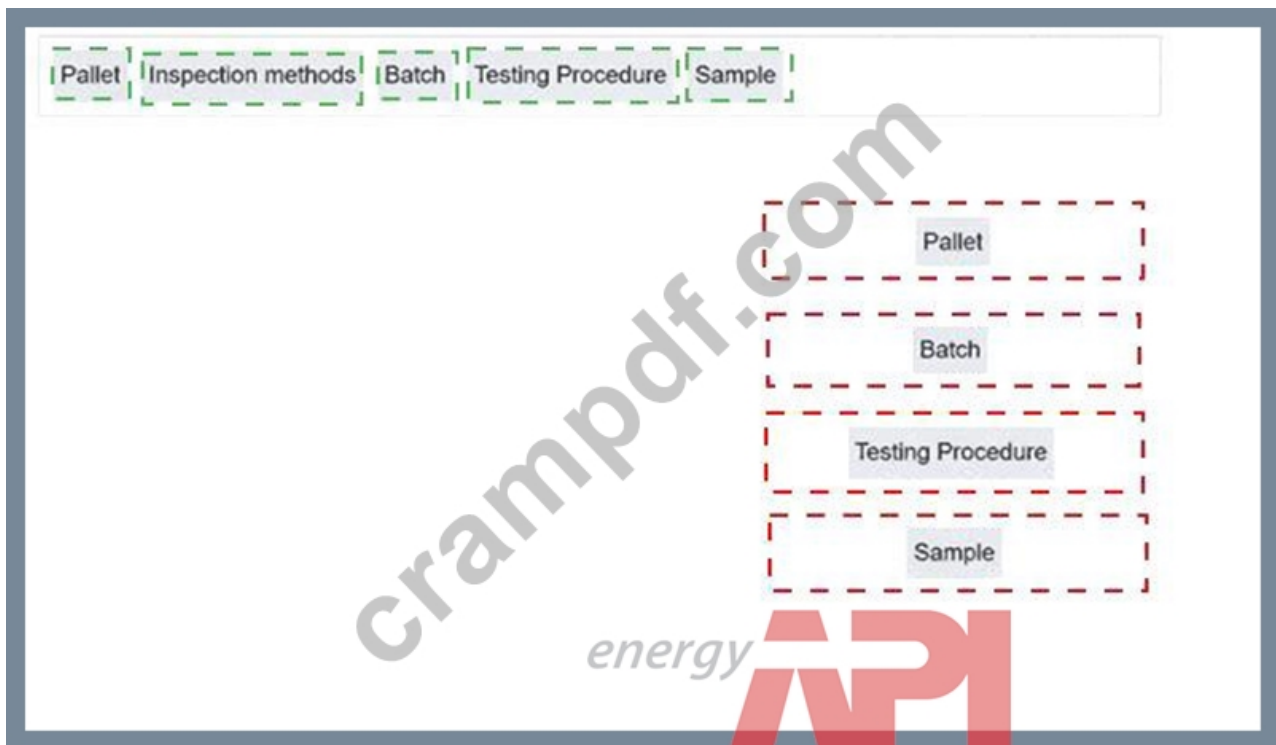
Which factors must be the same when retesting a sample that fails to meet specification?

Pallet	Inspection methods	Batch	Testing Procedure	Sample
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Answer:

Explanation:



Explanation:

Pallet

Batch

Testing Procedure

Sample

When a sample fails to meet the required specifications in accordance with API Std 936, any retesting must maintain strict consistency with the original conditions to ensure validity and comparability of results.

API 936 states:

"If a sample fails to meet any requirement, resampling shall be permitted. However, retesting shall be performed using specimens from the same batch, pallet, and sample as the original test. The same testing procedure must be used."

- API Std 936, Section 6.2.3

Explanation of Matching Terms:

Pallet: To ensure material consistency.

Batch: Revalidates results without introducing variability from a new production lot.

Testing Procedure: Methodology must not change to avoid skewed comparison.

Sample: Must be the original sample to confirm initial findings.

Therefore, all of these factors must remain the same. The only item in your provided list that is not required to match is "Inspection methods" - it is not part of the retesting condition clause.

NEW QUESTION # 35

Alumina - silica refractories containing 45% or more alumina, materials used in their production include diaspore, bauxite, gibbsite, kyanite, sillimanite, alusite, and fused alumina (artificial corundum) is called

- A. fire clay refractory
- B. high alumina refractories
- C. insulating refractories
- D. all of the above

Answer: B

NEW QUESTION # 36

Each sample tested in accordance with ASTM C181 for workability index shall consist of how many specimens?

- A. 0
- B. 1

- C. 2
- D. 3

Answer: A

Explanation:

According to API Std 936, which incorporates ASTM C181 by reference:

"Each sample tested for workability index in accordance with ASTM C181 shall consist of three specimens."

- API Std 936, Section 6.4.6 Workability Testing

Thus, Option C is correct. This testing ensures consistency in the flow characteristics of castable refractories prior to installation.

NEW QUESTION # 37

The lining surface should remain uncovered and free from contact with moisture during the curing period for what type of refractory?

- A. Cement bonded
- B. Hydraulic bonded
- **C. Chemically bonded**
- D. Ceramic bonded

Answer: C

Explanation:

Chemically bonded refractories, such as phosphate-bonded or acid-bonded types, develop strength through chemical reactions that require exposure to ambient air. These materials must remain uncovered and dry during curing, as moisture or covering may inhibit the required chemical bonding or lead to improper set.

Covering chemically bonded linings (e.g., with plastic sheeting or wet burlap) - practices appropriate for hydraulic bonded (cement-based) refractories - would trap moisture and interfere with the chemical reaction process in chemical bonds.

Reference:

API TR 980 - Monolithic Refractories: Installation and Dryout, Section on Chemically Bonded Refractories:

"Do not cover chemically bonded castables during the curing period. Keep surfaces exposed to air."

NEW QUESTION # 38

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