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API-936 exam assesses the knowledge of individuals on a range of topics related to refractory materials, including the properties of refractories, application of refractories, installation and quality control. API-936 exam is based on a clear set of standards and guidelines that have been developed by industry experts to ensure that those who pass the exam are well-equipped to handle refractory materials effectively. API-936 Exam is a multiple-choice test, consisting of 120 questions, and may take up to four hours to complete.

>> Updated API-936 Testkings <<

API-936 – 100% Free Updated Testkings | Authoritative Refractory Personnel Latest Mock Exam

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To be eligible to take the API-936 exam, candidates must have a minimum of three years of experience in the refractory field, with at least one year of experience in inspection and testing. Candidates must also have a high school diploma or equivalent education. The API-936 exam is administered at authorized testing centers around the world.

API 936 exam covers a wide range of topics related to refractory materials and their applications. API-936 Exam includes questions on topics such as refractory properties and behavior, installation techniques, inspection and testing methods, and repair and maintenance procedures. API-936 exam also covers safety considerations, including the use of personal protective equipment and the safe handling and disposal of refractory materials.

API Refractory Personnel Sample Questions (Q31-Q36):

NEW QUESTION # 31

Size distribution of aggregate particles is determined by:

- A. expansion allowance.
- B. porosity.
- C. rebound.
- D. screen analysis.

Answer: D

Explanation:

The correct method for determining the size distribution of aggregate particles used in refractory castables is screen analysis. This is a standardized technique for analyzing particle size distribution by passing material through a series of sieves with progressively smaller openings.

As specified in API 936 and related technical literature such as API TR 978 and API TR 980, aggregate grading and size distribution directly affect the packing density and therefore the performance of monolithic refractories. The screen analysis is fundamental in determining if aggregates fall within the prescribed grading ranges, which is critical for workability, density, and mechanical strength.

Reference: API TR 978 -Monolithic Refractories: Manufacture, Properties, and Selection, Section on "Aggregate Grading" API Std 936 (Installation Quality Control of Monolithic Refractories) - ASTM C136 /C136M referenced in material property section.

NEW QUESTION # 32

A condition describing a refractory lining that is soft and friable

- A. Slumping
- B. None of the above
- C. Plunky
- D. Bloating

Answer: C

NEW QUESTION # 33

Based on screen analysis the fines (cement, fumed silica, fine alumina) in typical modern castable is

- A. None of the above
- B. 40 - 50%
- C. 20 - 30%
- D. 30 - 40%

Answer: D

NEW QUESTION # 34

For qualification testing, test panels for pneumatic gunning are inclined at a:

- A. 30° angle above the horizontal.
- B. 90° angle above the horizontal.
- C. 60° angle above the horizontal.
- D. 45° angle above the horizontal.

Answer: D

Explanation:

When qualifying materials and personnel for gunning applications, the standard test panel orientation is:

"The gunned panels shall be prepared on steel plate forms inclined at 45° to the horizontal."

- API Std 936, Section 6.5.1, Gunning Test Panels

This standardized angle helps evaluate rebound and build-up in conditions that simulate typical applications.

NEW QUESTION # 35

When water is used for refractory installed on a carbon steel surface with a stainless steel anchorage, the chloride content of the potable water shall not exceed:

- A. 250 ppm
- B. 100 ppm
- C. 200 ppm
- D. 50 ppm

Answer: D

Explanation:

According to API Standard 936, water used in the preparation of refractory mixes is subject to quality limitations, especially when stainless steel anchors are embedded in or come into contact with the refractory that is installed on a carbon steel surface. High chloride concentrations in the mixing water may promote corrosion in stainless steel anchoring systems.

API 936 explicitly states:

"When water is used for refractory installed on a carbon steel surface with a stainless steel anchorage, the chloride content of the potable water shall not exceed 50 ppm"

¹ - API Std 936, Section 5.1.2

This clause is intended to protect the integrity of stainless steel anchors from chloride-induced stress corrosion cracking or pitting, which can compromise the mechanical support of the refractory lining.

Therefore, Option A (50 ppm) is the only correct and code-compliant answer.

NEW QUESTION # 36

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