



National Standard of People's Republic of China YS/T 692-2009 Tungstic Acid

1. Range

Tungstic acid national standard stipulates the requirement, test method, detection rule, sign, packing, transportation, storage, quality certificate and contract (or order) content.

This standard is applied for tungstic acid used in catalyst, painting, lubricant, plastic industry and ceramic industry.

2. Normative Reference

The following documents are essential for the application of this document. Note dated reference documents, only note the date of the version is applicable to this document. Any reference to the date of the document, its latest version (including the amendment used alone) is applicable to the document.

GB/T 1479.1 Determination of bulk density of metal powders - part first: Funnel method

GB/T 3249 method for the determination of metallic and its compound powder granularity Fernandez

GB/T 4324 (all parts) tungsten chemical analysis method

GB/T 5314 Method of sampling for powder metallurgy

YS/T 559 Determination of Tungsten Emission Spectrum

3. Requirement

3.1 Product classification

According to different WO₃ content and impurity content, it can be classified into H₂WO₄-0, H₂WO₄-1, H₂WO₄-2.

3.2 Chemical component:

Grade		H ₂ WO ₄ -0	H ₂ WO ₄ -1	H ₂ WO ₄ -2
WO ₃ Content (%Min)		91.0	90.0	85.0
Impurity Content (%Max)	Al	0.001	0.001	0.001
	As	0.010	0.015	0.020
	Bi	0.001	0.001	0.001
	Ca	0.006	0.008	0.010
	Co	0.001	0.001	0.001
	Cr	0.001	0.001	0.001
	Cu	0.001	0.001	0.001
	Fe	0.003	0.003	0.004
	K	0.001	0.002	0.003
	Mg	0.001	0.001	0.001
Mn	0.001	0.001	0.001	



Impurity Content (%Max)	Mo	0.015	0.020	0.030
	Na	0.004	0.004	0.005
	Ni	0.001	0.001	0.001
	P	0.002	0.003	0.005
	Pb	0.001	0.001	0.001
	S	0.005	0.005	0.010
	Sb	0.001	0.001	0.001
	Si	0.004	0.005	0.010
	Sn	0.001	0.001	0.001
	Ti	0.001	0.001	0.001
	V	0.001	0.001	0.001

3.3 Particle size

The product of Fisher particle size can be negotiated by both parties.

3.4 Apparent density

The product of apparent density can be negotiated by both parties.

3.5 Appearance quality

The product is yellow powder. Under visual contact there is no inclusion or agglomeration.

4. Test method

4.1 Test of K, S, P, Na is processed under provision GB/T 4324, other element is subject to YS/T 559.

4.2 Particle size is processed under provision GB/T 3249.

4.3 Apparent density is processed under provision GB/T 1479.

4.4 Appearance quality is tested by visual contact.

5. Detection rule

5.1 Inspection and acceptance

5.1.1 Product is checked by supplier to ensure the product is up to the standard, the product quality certificate is required.

5.1.2 After received the product, demander check the product according to the national standard. If the test result is not match to the stipulation, demander should inform the supplier within 30 days from the date of receive. If arbitration is involved, the sampling is provided by demander and arbitration is executed by both parties.

5.2 Order grouping product should be examined in group, the weight is negotiated by both parties.

5.3 Inspection items are listed as below:

Inspection Items	Sample Quantity	Articles Required	Test Articles
Chemical Component	GB/T 5314	3.2	4.1
Grain Size	GB/T 5314	3.3	4.2
Apparent Density	GB/T 5314	3.4	4.3
Appearance	By Batch	3.5	4.4



5.4 Testing result

5.4.1 If one of the follows such as chemical component, water insoluble matter, PH value is unqualified, then check this item repeated, if the repeated trial is still unqualified, then the product is below the standard.

5.4.2 If the appearance quality is below the standard, then the barrel is unqualified.

6. Sign, packing, transportation, storage and quality certificate.

6.1 Sign

There should be signs on the package include suppliers' name, product name, grade, batch number, net weight, also letters like 'keep away from moisture', etc.

6.2 Packing

Product is sealed by the packing of the packing material, which is lined with polyethylene plastic bag.

6.3 Transportation

Product transport should prevent wet, and not upside down and violent collision.

6.4 Storage

Products should be stored in a dry and non corrosive atmosphere.

6.5 Quality certificate

Quality certificate should be included in every batch of product. It should include:

- 1) Supplier name, address, postcode;
- 2) Product name, grade;
- 3) Batch number;

- 4) Weight (net weight and gross weight);
- 5) Standard number GB/T 3457-2013;
- 6) Test result and seal of quality inspection department;
- 7) Inspector ID;
- 8) Inspecting date.

7. Contract (or order) content.

Contract (or order) content includes

- 1) Product name;
- 2) Grade;
- 3) Weight;
- 4) Standard number.