

Glassy Carbon



Glassy carbon, a brittle form of carbon with a randomized structure, has certain specific properties making it appropriate for fields of application outside the scope of carbon types previously known. Glassy carbon offers high purity, corrosion resistance, thermal stability and a structure impermeable to both gases and liquids. Alta Aesar's glassy carbon products are subjected to a high temperature heat treatment which imparts special material properties including significantly improved corrosion resistance and strength. Advantages over more traditional materials are:

- Resistance to all wet decomposition agents
- No memory effects (uncontrolled adsorption and release of foreign elements)
- No contamination of analytical samples
- Stability to acid and alkaline melts
- No wetting effect of metal melts
- Good resistance to thermal shock allows rapid heating and cooling times
- Resistive to abrasive wear
- Good electrical conductivity

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Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
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Glassy Carbon Beakers



Glassy carbon, a brittle form of carbon with a randomized structure, has certain specific properties making it appropriate for fields of application outside the scope of carbon types previously known. Glassy carbon offers high purity, corrosion resistance, thermal stability and a structure impermeable to both gases and liquids. Alta Aesar's glassy carbon products are subjected to a high temperature heat treatment which imparts special material properties including significantly improved corrosion resistance and strength. Advantages over more traditional materials are:

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- No contamination of analytical samples
- Stability to acid and alkaline melts
- No wetting effect of metal melts
- Good resistance to thermal shock allows rapid heating and cooling times
- Resistive to abrasive wear
- Good electrical conductivity

Applications

- Vessels for ultra-high purity materials technology, e.g. semiconductor connections and crystalgrowing, e.g. doped halogenide crystals
- Crucibles for high-temperature differential thermal/thermal gravimetric analyses
- Specimen holders and cuvettes for atomic absorption and atomic emission spectroscopy and multi-element analyses with plasma excitation, e.g. by the ICP method (inductively coupled plasma)
- Protective tubes for thermo-elements and viewing tubes for pyrometers
- Shaping tools for the glass industry
- Electrochemistry

39023	Glassy Carbon Beaker;Vol (ml), 100;Dia (mm), 54;Ht (mm), 70
39024	Glassy Carbon Beaker;Vol (ml), 250;Dia (mm), 75;Ht (mm), 82
39025	Glassy Carbon Beaker;Vol (ml), 400;Dia (mm), 90;Ht (mm), 86

Glassy Carbon Cylindrical Crucibles



Glassy carbon, a brittle form of carbon with a randomized structure, has certain specific properties making it appropriate for fields of application outside the scope of carbon types previously known. Glassy carbon offers high purity, corrosion resistance, thermal stability and a structure impermeable to both gases and liquids. Alta Aesar's glassy carbon products are subjected to a high temperature heat treatment which imparts special material properties including significantly improved corrosion resistance and strength. Advantages over more traditional materials are:

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- Electrochemistry

39008	Glassy Carbon Cylindrical Crucible; Vol (ml), 10; Dia (mm), 24; Ht (mm), 39
39012	Glassy Carbon Cylindrical Crucible; Vol (ml), 130; Dia (mm), 56; Ht (mm), 85
39014	Glassy Carbon Cylindrical Crucible; Vol (ml), 260; Dia (mm), 73; Ht (mm), 85
39010	Glassy Carbon Cylindrical Crucible; Vol (ml), 30; Dia (mm), 36; Ht (mm), 45
39011	Glassy Carbon Cylindrical Crucible; Vol (ml), 50; Dia (mm), 40; Ht (mm), 56

Glassy Carbon Lids



Glassy carbon, a brittle form of carbon with a randomized structure, has certain specific properties making it appropriate for fields of application outside the scope of carbon types previously known. Glassy carbon offers high purity, corrosion resistance, thermal stability and a structure impermeable to both gases and liquids. Alta Aesar's glassy carbon products are subjected to a high temperature heat treatment which imparts special material properties including significantly improved corrosion resistance and strength. Advantages over more traditional materials are:

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- Electrochemistry

39020	Glassy Carbon Lid;Top Dia (mm), 37;Bottom Dia (mm), 23
38377	Glassy Carbon Lid;Top Dia (mm), 92;Bottom Dia (mm), 72
39021	Glassy Carbon Lid;Top Dia (mm), typically 50;Bottom Dia (mm), 36

Glassy Carbon Splinter Powders



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No wetting effect of metal melts

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Resistive to abrasive wear

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Protective tubes for thermo-elements and viewing tubes for pyrometers

Shaping tools for the glass industry

Electrochemistry

38001	Glassy carbon splinter powder, 0.4-12 micron, type 1
38007	Glassy carbon splinter powder, 0.4-12 micron, type 2

42518	Glassy carbon splinter powder, 1000-2000 micron, type 1
42519	Glassy carbon splinter powder, 1000-2000 micron, type 2
42514	Glassy carbon splinter powder, 2000-3150 micron, type 1
42515	Glassy carbon splinter powder, 2000-3150 micron, type 2
42811	Glassy carbon splinter powder, 200-400 micron, type 1
42813	Glassy carbon splinter powder, 200-400 micron, type 2
41258	Glassy carbon splinter powder, 20-50 micron, type 1
41259	Glassy carbon splinter powder, 20-50 micron, type 2
42516	Glassy carbon splinter powder, 3150-4000 micron, type 1
42517	Glassy carbon splinter powder, 3150-4000 micron, type 2
42520	Glassy carbon splinter powder, 630-1000 micron, type 1
42521	Glassy carbon splinter powder, 630-1000 micron, type 2
38002	Glassy carbon splinter powder, 80-200 micron, type 1
38013	Glassy carbon splinter powder, 80-200 micron, type 2

Glassy Carbon Boats



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Applications

- Vessels for ultra-high purity materials technology, e.g. semiconductor connections and crystal growing, e.g. doped halogenide crystals
- Crucibles for high-temperature differential thermal/thermal gravimetric analyses
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- Shaping tools for the glass industry
- Electrochemistry

39028	Glassy Carbon Boat;Vol (ml), 10;Length (mm), 103;Width (mm), 16;Ht (mm), 10
39026	Glassy Carbon Boat;Vol (ml), 2;Length (mm), 29;Width (mm), 16;Ht (mm), 10
39027	Glassy Carbon Boat;Vol (ml), 3;Length (mm), 53;Width (mm), 16;Ht (mm),10

Glassy Carbon Electron Beam Evaporating Crucibles



Glassy carbon, a brittle form of carbon with a randomized structure, has certain specific properties making it appropriate for fields of application outside the scope of carbon types previously known. Glassy carbon offers high purity, corrosion resistance, thermal stability and a structure impermeable to both gases and liquids. Alta Aesar's glassy carbon products are subjected to a high temperature heat treatment which imparts special material properties including significantly improved corrosion resistance and strength. Advantages over more traditional materials are:

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- Shaping tools for the glass industry
- Electrochemistry

40965	Glassy Carbon E-Beam Evaporating Crucible; Vol(ml), 30; Top Dia(mm), 50; Bot Dia(mm), 35; Height(mm), 26; Angle, 15°
40960	Glassy Carbon E-Beam Evaporating Crucible; Vol(ml), 4; Top Dia(mm), 29; Bot Dia(mm), 22; Height(mm), 15; Angle, 15°
40961	Glassy Carbon E-Beam Evaporating Crucible; Vol(ml), 7; Top Dia(mm), 34; Bot Dia(mm), 26; Height(mm), 17; Angle, 15°

Glassy Carbon Plates



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Applications

Vessels for ultra-high purity materials technology, e.g. semiconductor connections and crystal-growing, e.g. doped halogenide crystals

Crucibles for high-temperature differential thermal/thermal gravimetric analyses

Specimen holders and cuvettes for atomic absorption and atomic emission spectroscopy and multi-element analyses with plasma excitation, e.g. by the ICP method (inductively coupled plasma)

Protective tubes for thermo-elements and viewing tubes for pyrometers

Shaping tools for the glass industry

Electrochemistry

38024 Glassy carbon plate, 1mm (0.04in) thick, type 1

38021	Glassy carbon plate, 1mm (0.04in) thick, type 2
38025	Glassy carbon plate, 2mm (0.08in) thick, type 1
38022	Glassy carbon plate, 2mm (0.08in) thick, type 2
42821	Glassy carbon plate, 3mm (0.1in) thick, type 1
42820	Glassy carbon plate, 3mm (0.1in) thick, type 2
38026	Glassy carbon plate, 4mm (0.16in) thick, type 1
38023	Glassy carbon plate, 4mm (0.16in) thick, type 2

Glassy Carbon Tapered Crucibles for Crystal Growth



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Stability to acid and alkaline melts

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Resistive to abrasive wear

Good electrical conductivity

Applications

Vessels for ultra-high purity materials technology, e.g. semiconductor connections and crystal growing, e.g. doped halogenide crystals

Crucibles for high-temperature differential thermal/thermal gravimetric analyses

Specimen holders and cuvettes for atomic absorption and atomic emission spectroscopy and multi-element analyses with plasma excitation, e.g. by the ICP method (inductively coupled plasma)

Protective tubes for thermo-elements and viewing tubes for pyrometers

Shaping tools for the glass industry

Electrochemistry

40955

Glassy Carbon Tapered Crucible for Crystal Growth; Vol(ml), 37; Top Dia(mm), 51; Height(mm), 30

Glassy Carbon Conical Crucibles



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Applications

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- Specimen holders and cuvettes for atomic absorption and atomic emission spectroscopy and multi-element analyses with plasma excitation, e.g. by the ICP method (inductively coupled plasma)
- Protective tubes for thermo-elements and viewing tubes for pyrometers
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- Electrochemistry

38376	Glassy Carbon Conical Crucible;Vol (ml), 100;Top Dia (mm), 70;Bottom Dia (mm), 34;Ht (mm), 53
39003	Glassy Carbon Conical Crucible;Vol (ml), 10;Top Dia (mm), 31;Bottom Dia (mm), 17;Ht (mm), 27
39007	Glassy Carbon Conical Crucible;Vol (ml), 150;Top Dia (mm), 64;Bottom Dia (mm), 33;Ht (mm), 74
39004	Glassy Carbon Conical Crucible;Vol (ml), 20;Top Dia (mm), 35;Bottom Dia (mm), 18;Ht (mm), 38
39005	Glassy Carbon Conical Crucible;Vol (ml), 30;Top Dia (mm), 44;Bottom Dia (mm), 22;Ht (mm), 45
39006	Glassy Carbon Conical Crucible;Vol (ml), 60;Top Dia (mm), 52;Bottom Dia (mm), 25;Ht (mm), 56

Glassy Carbon Evaporating Dishes



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Applications

- Vessels for ultra-high purity materials technology, e.g. semiconductor connections and crystalgrowing, e.g. doped halogenide crystals
- Crucibles for high-temperature differential thermal/thermal gravimetric analyses
- Specimen holders and cuvettes for atomic absorption and atomic emission spectroscopy and multi-element analyses with plasma excitation, e.g. by the ICP method (inductively coupled plasma)
- Protective tubes for thermo-elements and viewing tubes for pyrometers
- Shaping tools for the glass industry
- Electrochemistry

38372	Glassy Carbon Evaporating Dish;Vol (ml), 100;Top Dia (mm), 108;Bottom Dia (mm), 73;Ht (mm), 27
39029	Glassy Carbon Evaporating Dish;Vol (ml), 20;Top Dia (mm), 47;Bottom Dia (mm), 26;Ht (mm), 22

Glassy Carbon Rods



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Applications

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- Protective tubes for thermo-elements and viewing tubes for pyrometers
- Shaping tools for the glass industry
- Electrochemistry

38009	Glassy carbon rod, 1mm (0.04in) dia, type 1
37996	Glassy carbon rod, 1mm (0.04in) dia, type 2

38010	Glassy carbon rod, 2mm (0.08in) dia, type 1
37997	Glassy carbon rod, 2mm (0.08in) dia, type 2
42822	Glassy carbon rod, 3mm (0.1in) dia, type 1
42824	Glassy carbon rod, 3mm (0.1in) dia, type 2
42823	Glassy carbon rod, 4mm (0.16in) dia, type 1
42825	Glassy carbon rod, 4mm (0.16in) dia, type 2
38011	Glassy carbon rod, 5mm (0.2in) dia, type 1
37998	Glassy carbon rod, 5mm (0.2in) dia, type 2
45004	Glassy carbon rod, 6mm (0.24in) dia, type 1
45005	Glassy carbon rod, 6mm (0.24in) dia, type 2
38012	Glassy carbon rod, 7mm (0.28in) dia, type 1
37999	Glassy carbon rod, 7mm (0.28in) dia, type 2

Glassy Carbon Crucibles for Crystal Growth



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- Shaping tools for the glass industry
- Electrochemistry

39016	Glassy Carbon Crucible for Crystal Growth;Vol(ml), 25;Top Dia(mm), 19;Bottom Dia(mm), 19;Ht(mm), 140;Bottom Angle, 60°
39017	Glassy Carbon Crucible for Crystal Growth;Vol(ml), 30;Top Dia(mm), 24;Bottom Dia(mm), 19;Ht(mm), 160;Bottom Angle, 30°
39019	Glassy Carbon Crucible for Crystal Growth;Vol(ml), 400;Top Dia(mm), 57;Bottom Dia(mm), 57;Ht(mm), 195;Bottom Angle, 90°
39015	Glassy Carbon Crucible for Crystal Growth;Vol(ml), 7;Top Dia(mm), 14;Bottom Dia(mm), 14;Ht(mm), 100;Bottom Angle, 90°

Glassy Carbon Foam



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Resistive to abrasive wear

Good electrical conductivity

Applications

Vessels for ultra-high purity materials technology, e.g. semiconductor connections and crystal-growing, e.g. doped halogenide crystals

Crucibles for high-temperature differential thermal/thermal gravimetric analyses

Specimen holders and cuvettes for atomic absorption and atomic emission spectroscopy and multi-element analyses with plasma excitation, e.g. by the ICP method (inductively coupled plasma)

Protective tubes for thermo-elements and viewing tubes for pyrometers

Shaping tools for the glass industry

Electrochemistry

Glassy Carbon Spherical Powders



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- Electrochemistry

38004	Glassy carbon spherical powder, 0.4-12 micron, type 1
38008	Glassy carbon spherical powder, 0.4-12 micron, type 2
43489	Glassy carbon spherical powder, 10-20 micron, type 1
43490	Glassy carbon spherical powder, 10-20 micron, type 2
42130	Glassy carbon spherical powder, 200-400 micron, type 1
42550	Glassy carbon spherical powder, 200-400 micron, type 2
42129	Glassy carbon spherical powder, 400-630 micron, type 1
41481	Glassy carbon spherical powder, 400-630 micron, type 2
41497	Glassy carbon spherical powder, 630-1000 micron, type 1
41530	Glassy carbon spherical powder, 630-1000 micron, type 2

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