

# Specpure® XRF Standards for Petroleum Products



Alfa Aesar offers a complete line of Specpure® calibration standards, designed specifically for the analysis of sulfur and chlorine in petroleum products by X-ray fluorescence spectrometry.

All Specpure® standards are manufactured from the highest quality raw materials available. These standards are made up on a weight/weight basis using balances which are routinely calibrated using NIST-traceable weights. All Alfa Aesar standards are accompanied by a Certificate of Analysis which states the actual concentration and the traceability to NIST. They are guaranteed to be stable for one year from the ship date, provided they are kept tightly capped and stored under normal laboratory conditions.

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## Specpure® Chlorine in Heavy Mineral Oil Standards



All Specpure® Chlorine in Heavy Mineral Oil standards are manufactured from the highest quality raw materials available. These standards are made up on a weight/weight basis using balances which are routinely calibrated using NIST-traceable weights. The matrix oil for these standards is a 75cSt mineral oil. All Alfa Aesar standards are accompanied by a Certificate of Analysis which states the actual concentration and the traceability to NIST. They are guaranteed to be stable for one year from the ship date, provided they are kept tightly capped and stored under normal laboratory conditions.

	40558	Chlorine in Heavy Mineral Oil standard solution, Specpure®, 10,000µg/g (1.00%)
	40553	Chlorine in Heavy Mineral Oil standard solution, Specpure®, 1000µg/g (0.10%)
	40549	Chlorine in Heavy Mineral Oil standard solution, Specpure®, 100µg/g (0.010%)
	42184	Chlorine in Heavy Mineral Oil standard solution, Specpure®, 10µg/g (0.001%)
	42185	Chlorine in Heavy Mineral Oil standard solution, Specpure®, 50,000µg/g (5.00%)
	40551	Chlorine in Heavy Mineral Oil standard solution, Specpure®, 500µg/g (0.050%)
	40548	Chlorine in Heavy Mineral Oil standard solution, Specpure®, blank (0.000%)

## Bismuth Internal Standards for XRF, Test Method ASTM D5059 Parts A & C



Alfa Aesar offers a line of standards specifically designed for the analysis of lead in gasoline. This standard is ideally suited for ASTM method D5059 Part A & C.

This Specpure® Bismuth Internal Standard is manufactured from the highest quality raw materials available. This standard is made up on a weight/weight basis using balances which are routinely calibrated using NIST-traceable weights. All Alfa Aesar standards are accompanied by a Certificate of Analysis which states the actual concentration and the traceability to NIST. They are guaranteed to be stable for one year from the ship date, provided they are kept tightly capped and stored under normal laboratory conditions.



45338








Bismuth Internal Standard for method ASTM D5059 Part A and C, Bi @  
0.793g/L

# Lead in Isooctane Standards for XRF, Test Method ASTM D5059 Part A



Alfa Aesar offers a line of standards specifically designed for the analysis of lead in gasoline. These standards are ideally suited for ASTM method D5059 Part A.

All Specpure® Lead in Isooctane standards are manufactured from the highest quality raw materials available. These standards are made up on a weight/weight basis using balances which are routinely calibrated using NIST-traceable weights. All Alfa Aesar standards are accompanied by a Certificate of Analysis which states the actual concentration and the traceability to NIST. They are guaranteed to be stable for one year from the ship date, provided they are kept tightly capped and stored under normal laboratory conditions.









	45354	Lead in Isooctane standard solution, Specpure®, 0µg/g(0.0g/gal)
	45327	Lead in Isooctane standard solution, Specpure®, 1110µg/g(3.0g/gal)
	45328	Lead in Isooctane standard solution, Specpure®, 1480µg/g(4.0g/gal)
	45329	Lead in Isooctane standard solution, Specpure®, 1850µg/g(5.0g/gal)
	45325	Lead in Isooctane standard solution, Specpure®, 370µg/g(1.0g/gal)
	45324	Lead in Isooctane standard solution, Specpure®, 37µg/g(0.1g/gal)
	45326	Lead in Isooctane standard solution, Specpure®, 740µg/g(2.0g/gal)

# Lead in Isooctane Standards for XRF, Test Method ASTM D5059 Part C



Alfa Aesar offers a line of standards specifically designed for the analysis of lead in gasoline. These standards are ideally suited for ASTM method D5059 Part C.


All Specpure® Lead in Isooctane standards are manufactured from the highest quality raw materials available. These standards are made up on a weight/weight basis using balances which are routinely calibrated using NIST-traceable weights. All Alfa Aesar standards are accompanied by a Certificate of Analysis which states the actual concentration and the traceability to NIST. They are guaranteed to be stable for one year from the ship date, provided they are kept tightly capped and stored under normal laboratory conditions.

	45337	Lead in Isooctane standards, complete set for method ASTM D5059 Part C
	45331	Lead in Isooctane standard solution, Specpure®, 0.37µg/g(0.001g/gal)
	45330	Lead in Isooctane standard solution, Specpure®, 0µg/g(0.000g/gal)
	45336	Lead in Isooctane standard solution, Specpure®, 111µg/g(0.300g/gal)
	45332	Lead in Isooctane standard solution, Specpure®, 1.85µg/g(0.005g/gal)
	45334	Lead in Isooctane standard solution, Specpure®, 18.5µg/g(0.050g/gal)
	45333	Lead in Isooctane standard solution, Specpure®, 3.70µg/g(0.010g/gal)
	45335	Lead in Isooctane standard solution, Specpure®, 37.0µg/g(0.100g/gal)

## Specpure® Sulfur in Crude Oil Standards



All Specpure® Sulfur in Crude Oil standards are manufactured from the highest quality raw materials available. These standards are made up on a weight/weight basis using balances which are routinely calibrated using NIST-traceable weights. All Alfa Aesar standards are accompanied by a Certificate of Analysis which states the actual concentration and the traceability to NIST. They are guaranteed to be stable for one year from the ship date, provided they are kept tightly capped and stored under normal laboratory conditions.

	41888	Sulfur in Crude Oil standard solution, Specpure®, 10,000µg/g (1.00%)
	41885	Sulfur in Crude Oil standard solution, Specpure®, 1000µg/g (0.10%)
	41889	Sulfur in Crude Oil standard solution, Specpure®, 20,000µg/g (2.00%)
	41886	Sulfur in Crude Oil standard solution, Specpure®, 2500µg/g (0.25%)
	41890	Sulfur in Crude Oil standard solution, Specpure®, 30,000µg/g (3.00%)
	41891	Sulfur in Crude Oil standard solution, Specpure®, 40,000µg/g (4.00%)
	41892	Sulfur in Crude Oil standard solution, Specpure®, 50,000µg/g (5.00%)
	41887	Sulfur in Crude Oil standard solution, Specpure®, 5000µg/g (0.50%)

## Specpure® Sulfur in Kerosene Standards



Alfa Aesar offers a line of standards specifically designed for the analysis of sulfur in kerosene. These standards are ideally suited for ASTM methods D2622, D3120, D3246, D4294, D5453, D6334, D6445, and others.

All Specpure® Sulfur in Kerosene standards are manufactured from the highest quality raw materials available. These standards are made up on a weight/weight basis using balances which are routinely calibrated using NIST-traceable weights. All Alfa Aesar standards are accompanied by a Certificate of Analysis which states the actual concentration and the traceability to NIST. They are guaranteed to be stable for one year from the ship date, provided they are kept tightly capped and stored under normal laboratory conditions.

	40541	Sulfur in Kerosene standard solution, Specpure®, 1000µg/g (0.10%)
	40537	Sulfur in Kerosene standard solution, Specpure®, 100µg/g (0.010%)
	41704	Sulfur in Kerosene standard solution, Specpure®, 10µg/g (0.001%)
	40538	Sulfur in Kerosene standard solution, Specpure®, 300µg/g (0.030%)
	40539	Sulfur in Kerosene standard solution, Specpure®, 500µg/g (0.050%)
	41705	Sulfur in Kerosene standard solution, Specpure®, 50µg/g (0.005%)
	40540	Sulfur in Kerosene standard solution, Specpure®, 750µg/g (0.075%)
	40536	Sulfur in Kerosene standard solution, Specpure®, blank (0.000%)

## Specpure® Sulfur in Diesel Fuel Standards



Alfa Aesar offers a line of calibration standards specifically designed for the analysis of sulfur in diesel fuel. These standards are ideally suited for ASTM methods D2622, D4294, D7039, D7212, D7220 and others.

These standards are manufactured from the highest quality raw materials available, including well characterized starting materials and sulfur-free diesel oil. These standards are made up on a weight/weight basis using balances which are routinely calibrated using NIST traceable weights.

### Karl Fischer reagents

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	38776	Sulfur in Diesel Fuel standard solution, Specpure®, 10,000µg/g (1.00%)
	38771	Sulfur in Diesel Fuel standard solution, Specpure®, 1000µg/g (0.10%)
	38765	Sulfur in Diesel Fuel standard solution, Specpure®, 100µg/g (0.010%)
	45309	Sulfur in Diesel Fuel standard solution, Specpure®, 10µg/g (0.0010%)
	38777	Sulfur in Diesel Fuel standard solution, Specpure®, 15,000µg/g (1.50%)
	45310	Sulfur in Diesel Fuel standard solution, Specpure®, 15µg/g (0.0015%)
	38778	Sulfur in Diesel Fuel standard solution, Specpure®, 20,000µg/g (2.00%)
	38766	Sulfur in Diesel Fuel standard solution, Specpure®, 200µg/g (0.020%)
	45311	Sulfur in Diesel Fuel standard solution, Specpure®, 20µg/g (0.0020%)
	45312	Sulfur in Diesel Fuel standard solution, Specpure®, 25µg/g (0.0025%)
	38780	Sulfur in Diesel Fuel standard solution, Specpure®, 30,000µg/g (3.00%)
	38773	Sulfur in Diesel Fuel standard solution, Specpure®, 3000µg/g (0.30%)
	38767	Sulfur in Diesel Fuel standard solution, Specpure®, 300µg/g (0.030%)
	41697	Sulfur in Diesel Fuel standard solution, Specpure®, 40,000µg/g (4.00%)

	38768	Sulfur in Diesel Fuel standard solution, Specpure®, 400µg/g (0.040%)
	41698	Sulfur in Diesel Fuel standard solution, Specpure®, 50,000µg/g (5.00%)
	38774	Sulfur in Diesel Fuel standard solution, Specpure®, 5000µg/g (0.50%)
	38769	Sulfur in Diesel Fuel standard solution, Specpure®, 500µg/g (0.050%)
	45313	Sulfur in Diesel Fuel standard solution, Specpure®, 50µg/g (0.0050%)
	45308	Sulfur in Diesel Fuel standard solution, Specpure®, 5µg/g (0.0005%)
	41699	Sulfur in Diesel Fuel standard solution, Specpure®, 60,000µg/g (6.00%)
	38770	Sulfur in Diesel Fuel standard solution, Specpure®, 750µg/g (0.075%)
	45314	Sulfur in Diesel Fuel standard solution, Specpure®, 75µg/g (0.0075%)
	38764	Sulfur in Diesel Fuel standard solution, Specpure®, blank (0.0000%)

## Specpure® Sulfur in Light Mineral Oil Standards



Alfa Aesar offers a line of calibration standards specifically designed for the analysis of sulfur in light mineral oil (20cSt mineral oil). These standards are ideally suited for ASTM Methods D2622, D4294, D7039, D7217, D7220 and others.

All Specpure® Sulfur in Light Mineral Oil standards are manufactured from the highest quality raw materials available. These standards are made up on a weight/weight basis using balances which are routinely calibrated using NIST-traceable weights. All Alfa Aesar standards are accompanied by a Certificate of Analysis which states the actual concentration and the traceability to NIST. They are guaranteed to be stable for one year from the ship date, provided they are kept tightly capped and stored under normal laboratory conditions.

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	42170	Sulfur in Light Mineral Oil standard solution, Specpure®, 10,000µg/g (1.00%)
	42165	Sulfur in Light Mineral Oil standard solution, Specpure®, 1,000µg/g (0.10%)
	42159	Sulfur in Light Mineral Oil standard solution, Specpure®, 100µg/g (0.0100%)
	42156	Sulfur in Light Mineral Oil standard solution, Specpure®, 10µg/g (0.0010%)
	42166	Sulfur in Light Mineral Oil standard solution, Specpure®, 1,500µg/g (0.15%)
	45348	Sulfur in Light Mineral Oil standard solution, Specpure®, 15µg/g (0.0015%)
	42171	Sulfur in Light Mineral Oil standard solution, Specpure®, 20,000µg/g (2.00%)
	42160	Sulfur in Light Mineral Oil standard solution, Specpure®, 200µg/g (0.0200%)
	45349	Sulfur in Light Mineral Oil standard solution, Specpure®, 20µg/g (0.0020%)
	42157	Sulfur in Light Mineral Oil standard solution, Specpure®, 25µg/g (0.0025%)
	42172	Sulfur in Light Mineral Oil standard solution, Specpure®, 30,000µg/g (3.00%)
	42167	Sulfur in Light Mineral Oil standard solution, Specpure®, 3,000µg/g (0.30%)
	42161	Sulfur in Light Mineral Oil standard solution, Specpure®, 300µg/g (0.0300%)
	42173	Sulfur in Light Mineral Oil standard solution, Specpure®, 40,000µg/g (4.00%)

42162	Sulfur in Light Mineral Oil standard solution, Specpure®, 400µg/g (0.0400%)
42174	Sulfur in Light Mineral Oil standard solution, Specpure®, 50,000µg/g (5.00%)
42168	Sulfur in Light Mineral Oil standard solution, Specpure®, 5,000µg/g (0.50%)
42163	Sulfur in Light Mineral Oil standard solution, Specpure®, 500µg/g (0.0500%)
42158	Sulfur in Light Mineral Oil standard solution, Specpure®, 50µg/g (0.0050%)
45315	Sulfur in Light Mineral Oil standard solution, Specpure®, 5µg/g (0.0005%)
42169	Sulfur in Light Mineral Oil standard solution, Specpure®, 7,500µg/g (0.75%)
42164	Sulfur in Light Mineral Oil standard solution, Specpure®, 750µg/g (0.0750%)
45316	Sulfur in Light Mineral Oil standard solution, Specpure®, 75µg/g (0.0075%)
42155	Sulfur in Light Mineral Oil standard solution, Specpure®, Blank (0.0000%)

## Specpure® Sulfur in Heavy Mineral Oil Standards



Alfa Aesar offers a line of calibration standards specifically designed for the analysis of sulfur in heavy mineral oil (75cSt mineral oil). These standards are ideally suited for ASTM Methods D2622, D4294, D7039, D7217, D7220 and others.

All Specpure® Sulfur in Heavy Mineral Oil standards are manufactured from the highest quality raw materials available. These standards are made up on a weight/weight basis using balances which are routinely calibrated using NIST-traceable weights. All Alfa Aesar standards are accompanied by a Certificate of Analysis which states the actual concentration and the traceability to NIST. They are guaranteed to be stable for one year from the ship date, provided they are kept tightly capped and stored under normal laboratory conditions.

### Karl Fischer reagents















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	40356	Sulfur in Heavy Mineral Oil standard solution, Specpure®, 10,000µg/g (1.00%)
	40351	Sulfur in Heavy Mineral Oil standard solution, Specpure®, 1000µg/g (0.10%)
	40345	Sulfur in Heavy Mineral Oil standard solution, Specpure®, 100µg/g (0.0100%)
	41734	Sulfur in Heavy Mineral Oil standard solution, Specpure®, 10µg/g (0.0010%)
	40352	Sulfur in Heavy Mineral Oil standard solution, Specpure®, 1500µg/g (0.15%)
	45350	Sulfur in Heavy Mineral Oil standard solution, Specpure®, 15µg/g (0.0015%)
	40358	Sulfur in Heavy Mineral Oil standard solution, Specpure®, 20,000µg/g (2.00%)
	40346	Sulfur in Heavy Mineral Oil standard solution, Specpure®, 200µg/g (0.0200%)
	45351	Sulfur in Heavy Mineral Oil standard solution, Specpure®, 20µg/g (0.0020%)
	41735	Sulfur in Heavy Mineral Oil standard solution, Specpure®, 25µg/g (0.0025%)
	40359	Sulfur in Heavy Mineral Oil standard solution, Specpure®, 30,000µg/g (3.00%)
	40353	Sulfur in Heavy Mineral Oil standard solution, Specpure®, 3000µg/g (0.30%)
	40347	Sulfur in Heavy Mineral Oil standard solution, Specpure®, 300µg/g (0.0300%)
	40360	Sulfur in Heavy Mineral Oil standard solution, Specpure®, 40,000µg/g (4.00%)







40348	Sulfur in Heavy Mineral Oil standard solution, Specpure®, 400µg/g (0.0400%)
40361	Sulfur in Heavy Mineral Oil standard solution, Specpure®, 50,000µg/g (5.00%)
40354	Sulfur in Heavy Mineral Oil standard solution, Specpure®, 5000µg/g (0.50%)
40349	Sulfur in Heavy Mineral Oil standard solution, Specpure®, 500µg/g (0.0500%)
45317	Sulfur in Heavy Mineral Oil standard solution, Specpure®, 5µg/g (0.0005%)
40355	Sulfur in Heavy Mineral Oil standard solution, Specpure®, 7500µg/g (0.75%)
40350	Sulfur in Heavy Mineral Oil standard solution, Specpure®, 750µg/g (0.0750%)
45318	Sulfur in Heavy Mineral Oil standard solution, Specpure®, 75µg/g (0.0075%)
40344	Sulfur in Heavy Mineral Oil standard solution, Specpure®, blank (0.0000%)



## Specpure® Sulfur in Residual Oil Standards



All Specpure® Sulfur in Residual Oil standards are manufactured from the highest quality raw materials available. These standards are made up on a weight/weight basis using balances which are routinely calibrated using NIST-traceable weights. All Alfa Aesar standards are accompanied by a Certificate of Analysis which states the actual concentration and the traceability to NIST. They are guaranteed to be stable for one year from the ship date, provided they are kept tightly capped and stored under normal laboratory conditions.

	41753	Sulfur in Residual Oil standard solution, Specpure®, 10,000µg/g (1.00%)
	41755	Sulfur in Residual Oil standard solution, Specpure®, 20,000µg/g (2.00%)
	41756	Sulfur in Residual Oil standard solution, Specpure®, 30,000µg/g (3.00%)
	41751	Sulfur in Residual Oil standard solution, Specpure®, 3500µg/g (0.35%)
	41757	Sulfur in Residual Oil standard solution, Specpure®, 40,000µg/g (4.00%)
	41752	Sulfur in Residual Oil standard solution, Specpure®, 7000µg/g (0.70%)

## Specpure® Sulfur in Isooctane Standards



All Specpure® Sulfur in Isooctane standards are manufactured from the highest quality raw materials available. These standards are made up on a weight/weight basis using balances which are routinely calibrated using NIST-traceable weights. All Alfa Aesar standards are accompanied by a Certificate of Analysis which states the actual concentration and the traceability to NIST. They are guaranteed to be stable for one year from the ship date, provided they are kept tightly capped and stored under normal laboratory conditions.

### Karl Fischer reagents














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	41324	Sulfur in Isooctane standard solution, Specpure®, 1000µg/g (0.100%)
	41315	Sulfur in Isooctane standard solution, Specpure®, 10µg/g (0.0010%)
	45352	Sulfur in Isooctane standard solution, Specpure®, 15µg/g (0.0015%)
	41320	Sulfur in Isooctane standard solution, Specpure®, 200µg/g (0.0200%)
	45353	Sulfur in Isooctane standard solution, Specpure®, 20µg/g (0.0020%)
	41325	Sulfur in Isooctane standard solution, Specpure®, 3000µg/g (0.300%)
	41321	Sulfur in Isooctane standard solution, Specpure®, 300µg/g (0.0300%)
	41322	Sulfur in Isooctane standard solution, Specpure®, 400µg/g (0.0400%)
	45322	Sulfur in Isooctane standard solution, Specpure®, 500µg/g (0.0500%)
	41318	Sulfur in Isooctane standard solution, Specpure®, 50µg/g (0.0050%)
	45319	Sulfur in Isooctane standard solution, Specpure®, 5µg/g (0.0005%)
	45323	Sulfur in Isooctane standard solution, Specpure®, 750µg/g (0.0750%)
	45321	Sulfur in Isooctane standard solution, Specpure®, 75µg/g (0.0075%)

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