

Windows & Spheres



Alfa Aesar is pleased to offer a line of optical transmission windows for infrared spectroscopy. Disc or rectangular windows are available either polished or unpolished. A polishing kit is offered for those who wish to polish their own windows. Please inquire for sizes not listed. When ordering drilled crystals, please specify center or diagonal drilling.

Алматы (7273)495-231
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Саранск (8342)22-96-24
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35

Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

<https://aesar.nt-rt.ru/> || arj@nt-rt.ru

IR Crystal Window Polishing Kit & Components



The Crystal Polishing Kit contains everything needed by the spectroscopist for repolishing and buffing most infrared transmission crystals, including KRS-5. Two ground glass discs are provided /n--one for fine grinding and the other to which self-stick polishing pads may be affixed.

Supplied /nwith the Polishing Kit are:

- 400 and 600 Grinding Compound
- Cerium Oxide Polishing Compound
- KRS-5 Polishing Compound (ideal for resurfacing KRS-5 crystals)
- Finger Cots
- 3 Camel Hair Brushes
- 2 Polishing Pads
- 2 Ground-Glass Plates
- 5 Polyethylene Squeeze Bottles with the above-mentioned compounds contained therein
- fitted mahogany base and instructions.

Listed below are also the individual components which can be purchased separately.

39807	Aluminum oxide, polishing compound
39806	Camel Hair Brushes (3/pkg)
39802	Cerium(IV) oxide, polishing compound, 57g (2oz)
39798	Crystal Polishing Kit
39805	Finger Cots - Large (12/pkg)
39808	Polishing Pads, 6in green (6/pkg)
39800	Silicon carbide, 400 grinding compound, 2oz (57g)
39801	Silicon carbide, 600 grinding compound, 2oz (57g)

Polished IR Crystal Windows - Discs & Rectangles



Alfa Aesar is pleased to offer a line of optical transmission windows for infrared spectroscopy. Disc or rectangular windows are available either polished or unpolished. A polishing kit is offered for those who wish to polish their own windows. Please inquire for sizes not listed. When ordering drilled crystals, please specify center or diagonal drilling.

38447	Barium fluoride crystal optic disc, 13mm x 1mm, polished both sides
38433	Barium fluoride crystal optic disc, 13mm x 2mm, polished both sides
38453	Barium fluoride crystal optic disc, 25mm x 2mm, polished both sides
38435	Barium fluoride crystal optic disc, 25mm x 4mm, polished both sides
38436	Barium fluoride crystal optic disc, 32mm x 3mm, polished both sides
38459	Barium fluoride crystal optic rectangle, 30mm x 15mm x 4mm, polished both sides
38446	Calcium fluoride crystal optic disc, 13mm x 1mm, polished both sides
38428	Calcium fluoride crystal optic disc, 13mm x 2mm, polished both sides

38429	Calcium fluoride crystal optic disc, 22mm x 4mm, polished both sides
38452	Calcium fluoride crystal optic disc, 25mm x 2mm, polished both sides
42145	Calcium fluoride crystal optic disc, 38mm x 6mm, polished both sides
38430	Calcium fluoride crystal optic disk, 25mm x 4mm, polished both sides
38464	Calcium fluoride crystal optic rectangle, 30mm x 15mm x 4mm (drilled), polished both sides
38458	Calcium fluoride crystal optic rectangle, 30mm x 15mm x 4mm, polished both sides
38476	Calcium fluoride crystal optic rectangle, 38.5mm x 19.5mm x 4mm (drilled), polished both sides
38470	Calcium fluoride crystal optic rectangle, 38.5mm x 19.5mm x 4mm, polished both sides
38482	Calcium fluoride crystal optic rectangle, 41mm x 23mm x 6mm, polished both sides
38445	Potassium bromide crystal optic disc, 13mm x 1mm, polished both sides
38423	Potassium bromide crystal optic disc, 13mm x 2mm, polished both sides
38424	Potassium bromide crystal optic disc, 22mm x 4mm, polished both sides
38451	Potassium bromide crystal optic disc, 25mm x 2mm, polished both sides
38425	Potassium bromide crystal optic disc, 25mm x 4mm, polished both sides
38427	Potassium bromide crystal optic disc, 32mm x 3mm (drilled), polished both sides
38426	Potassium bromide crystal optic disc, 32mm x 3mm, polished both sides
42146	Potassium bromide crystal optic disc, 38mm x 6mm, polished both sides
38457	Potassium bromide crystal optic rectangle, 30mm x 15mm x 4mm, polished both sides

38475	Potassium bromide crystal optic rectangle, 38.5mm x 19.5mm x 4mm (drilled), polished both sides
38469	Potassium bromide crystal optic rectangle, 38.5mm x 19.5mm x 4mm, polished both sides
38481	Potassium bromide crystal optic rectangle, 41mm x 23mm x 6mm, polished both sides
38444	Potassium chloride crystal optic disc, 13mm x 1mm, polished both sides
38418	Potassium chloride crystal optic disc, 13mm x 2mm, polished both sides
38419	Potassium chloride crystal optic disc, 22mm x 4mm, polished both sides
38450	Potassium chloride crystal optic disc, 25mm x 2mm, polished both sides
38420	Potassium chloride crystal optic disc, 25mm x 4mm, polished both sides
38422	Potassium chloride crystal optic disc, 32mm x 3mm (drilled), polished both sides
38421	Potassium chloride crystal optic disc, 32mm x 3mm, polished both sides
42147	Potassium chloride crystal optic disc, 38mm x 6mm, polished both sides
38474	Potassium chloride crystal optic rectangle, 38.5mm x 19.5mm x 4mm, (drilled), polished both sides
41739	Silver chloride crystal optic disc, 13mm x 1mm, polished both sides
41740	Silver chloride crystal optic disc, 13mm x 2mm, polished both sides
41742	Silver chloride crystal optic disc, 25mm x 2mm, polished both sides
41743	Silver chloride crystal optic disc, 25mm x 4mm, polished both sides
41744	Silver chloride crystal optic disc, 32mm x 3mm, polished both sides
38443	Sodium chloride crystal optic disc, 13mm x 1mm, polished both sides
38413	Sodium chloride crystal optic disc, 13mm x 2mm, polished both sides

38414	Sodium chloride crystal optic disc, 22mm x 4mm, polished both sides
38449	Sodium chloride crystal optic disc, 25mm x 2mm, polished both sides
38415	Sodium chloride crystal optic disc, 25mm x 4mm, polished both sides
38417	Sodium chloride crystal optic disc, 32mm x 3mm (drilled), polished both sides
38416	Sodium chloride crystal optic disc, 32mm x 3mm, polished both sides

42148	Sodium chloride crystal optic disc, 38mm x 6mm, polished both sides
38461	Sodium chloride crystal optic rectangle, 30mm x 15mm x 4mm (drilled), polished both sides
38455	Sodium chloride crystal optic rectangle, 30mm x 15mm x 4mm, polished both sides
38473	Sodium chloride crystal optic rectangle, 38.5mm x 19.5mm x 4mm (drilled), polished both sides
38467	Sodium chloride crystal optic rectangle, 38.5mm x 19.5mm x 4mm, polished both sides
45944	Sodium chloride crystal optic rectangle, 41mm x 23mm x 6mm (drilled), polished both sides
41883	Zinc selenide crystal optic disc, 13mm x 1mm, polished both sides
38438	Zinc selenide crystal optic disc, 13mm x 2mm, polished both sides
38454	Zinc selenide crystal optic disc, 25mm x 2mm, polished both sides
38460	Zinc selenide crystal optic rectangle, 30mm x 15mm x 2mm, polished both sides
38478	Zinc selenide crystal optic rectangle, 38.5mm x 19.5mm x 2mm (drilled), polished both sides

Unpolished IR Crystal Windows - Discs & Rectangles



Alfa Aesar is pleased to offer a line of optical transmission windows for infrared spectroscopy. Disc or rectangular windows are available either polished or unpolished. A polishing kit is offered for those who wish to polish their own windows. Please inquire for sizes not listed. When ordering drilled crystals, please specify center or diagonal drilling.

38391	Potassium bromide crystal optic disc, 13mm x 2mm, unpolished
38392	Potassium bromide crystal optic disc, 25mm x 5mm, unpolished
38393	Potassium bromide crystal optic disc, 32mm x 3mm, unpolished
38407	Potassium bromide crystal optic rectangle, 30mm x 15mm x 4mm, unpolished
38409	Potassium bromide crystal optic rectangle, 38.5mm x 19.5mm x 4mm, unpolished
38411	Potassium bromide crystal optic rectangle, 41mm x 23mm x 6mm, unpolished
38387	Potassium chloride crystal optic disc, 13mm x 2mm, unpolished
38388	Potassium chloride crystal optic disc, 25mm x 5mm, unpolished

38389	Potassium chloride crystal optic disc, 32mm x 3mm, unpolished
38401	Potassium chloride crystal optic rectangle, 30mm x 15mm x 4mm, unpolished
38403	Potassium chloride crystal optic rectangle, 38.5mm x 19.5mm x 4mm, unpolished
38405	Potassium chloride crystal optic rectangle, 41mm x 23mm x 6mm, unpolished
38383	Sodium chloride crystal optic disc, 13mm x 2mm, unpolished
38384	Sodium chloride crystal optic disc, 25mm x 5mm, unpolished
38385	Sodium chloride crystal optic disc, 32mm x 3mm, unpolished
38395	Sodium chloride crystal optic rectangle, 30mm x 15mm x 4mm, unpolished
38397	Sodium chloride crystal optic rectangle, 38.5mm x 19.5mm x 4mm, unpolished
38399	Sodium chloride crystal optic rectangle, 41mm x 23mm x 6mm, unpolished

Optical Windows



Alfa Aesar is pleased to offer a line of optical windows. The following list contains a selection of the more commonly available materials. Windows with different dimensions may also be available. Please contact us with any additional requirements you may have.

High purity metals and materials Fundamentals for research



[Discover our range >](#)

Specialty Chemical Services Custom made solutions for your needs

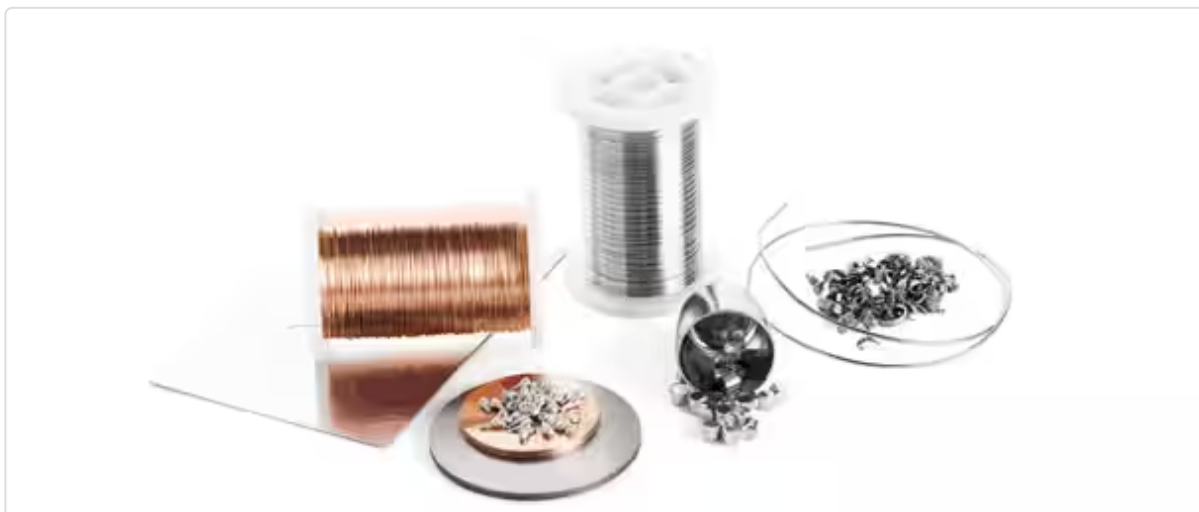


[Find out more >](#)

45625	Cadmium telluride Optical Window, 12.7mm (0.5in) dia x 1mm (0.04in) thick
45685	Cadmium telluride Optical Window, 12.7mm (0.5in) dia x 2mm (0.08in) thick
45536	Cadmium telluride Optical Window, 25.4mm (1.0in) dia x 1mm (0.04in) thick
45593	Cadmium telluride Optical Window, 25.4mm (1.0in) dia x 2mm (0.08in) thick
45643	Cadmium telluride Optical Window, 50.8mm (2.0in) dia x 2mm (0.08in) thick
45627	Cesium iodide Optical Window, 12.7mm (0.5in) dia x 3mm (0.12in) thick
45856	Cesium iodide Optical Window, 25.4mm (1.0in) dia x 2mm (0.08in) thick
46057	Cesium iodide Optical Window, 50.8mm (2.0in) dia x 1mm (0.04in) thick
45986	Cesium iodide Optical Window, 50.8mm (2.0in) dia x 2mm (0.08in) thick
45647	Cesium iodide Optical Window, 50.8mm (2.0in) dia x 3mm (0.12in) thick
45628	Gallium arsenide Optical Window, 12.7mm (0.5in) dia x 1mm (0.04in) thick
45667	Gallium arsenide Optical Window, 12.7mm (0.5in) dia x 2mm (0.08in) thick
46089	Gallium arsenide Optical Window, 25.4mm (1.0in) dia x 1mm (0.04in) thick
46107	Gallium arsenide Optical Window, 25.4mm (1.0in) dia x 2mm (0.08in) thick
45549	Gallium arsenide Optical Window, 50.8mm (2.0in) dia x 1mm (0.04in) thick
45636	Gallium arsenide Optical Window, 50.8mm (2.0in) dia x 2mm (0.08in) thick
45386	Germanium Optical Window, 25.4mm (1.0in) dia x 1mm (0.04in) thick
45387	Germanium Optical Window, 25.4mm (1.0in) dia x 2mm (0.08in) thick
45388	Germanium Optical Window, 50.8mm (2.0in) dia x 1mm (0.04in) thick

45626	Quartz Optical Window, 12.7mm (0.5in) dia x 1mm (0.04in) thick
45700	Quartz Optical Window, 12.7mm (0.5in) dia x 2mm (0.08in) thick
45537	Quartz Optical Window, 25.4mm (1.0in) dia x 1mm (0.04in) thick
45673	Quartz Optical Window, 25.4mm (1.0in) dia x 2mm (0.08in) thick
45653	Quartz Optical Window, 25.4mm (1.0in) dia x 3mm (0.12in) thick
45925	Quartz Optical Window, 50.8mm (2.0in) dia x 5mm (0.20in) thick
45638	Sapphire Optical Window, 12.7mm (0.5in) dia x 1mm (0.04in) thick
45560	Sapphire Optical Window, 25.4mm (1.0in) dia x 1mm (0.04in) thick
45654	Sapphire Optical Window, 25.4mm (1.0in) dia x 2mm (0.08in) thick
45813	Sapphire Optical Window, 50.8mm (2.0in) dia x 1mm (0.04in) thick
45717	Sapphire Optical Window, 50.8mm (2.0in) dia x 3mm (0.12in) thick
45380	Silicon Optical Window, 25.4mm (1.0in) dia x 1mm (0.04in) thick
45381	Silicon Optical Window, 25.4mm (1.0in) dia x 2mm (0.08in) thick
45633	Zinc selenide Optical Window, 12.7mm (0.5in) dia x 1mm (0.04in) thick
45666	Zinc selenide Optical Window, 12.7mm (0.5in) dia x 2mm (0.08in) thick
45834	Zinc selenide Optical Window, 25.4mm (1.0in) dia x 1mm (0.04in) thick
45885	Zinc selenide Optical Window, 25.4mm (1.0in) dia x 2mm (0.08in) thick
45955	Zinc selenide Optical Window, 50.8mm (2.0in) dia x 2mm (0.08in) thick

Ruby Spheres



Specifications for Grade 25 Ruby Spheres

Diameter tolerance per half - ± 0.000025 in.

V block out of round in 120° angle - ± 0.000025 in.

Basic diameter tolerance - ± 0.0001 in.

Maximum surface roughness (arithmetic average) - 1.5 micro-inch

High purity metals and materials
Fundamentals for research



[Discover our range >](#)

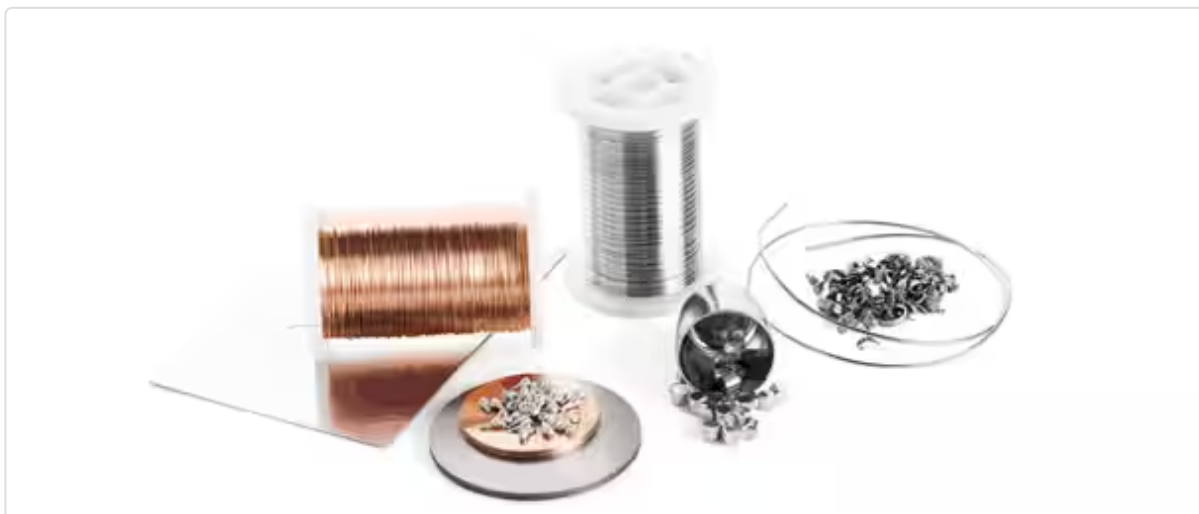
Specialty Chemical Services
Custom made solutions
for your needs

[Find out more >](#)



42072	Ruby sphere; diameter(mm), 0.25; grade 25
42073	Ruby sphere; diameter(mm), 0.50; grade 25
42074	Ruby sphere; diameter(mm), 0.75; grade 25
42075	Ruby sphere; diameter(mm), 1.00; grade 25
42041	Ruby sphere; diameter(mm), 1.19 (3/64 in); grade 25
42076	Ruby sphere; diameter(mm), 1.25; grade 25
42077	Ruby sphere; diameter(mm), 1.50; grade 25
42042	Ruby sphere; diameter(mm), 1.59 (1/16in); grade 25
42079	Ruby sphere; diameter(mm), 2.00; grade 25
42080	Ruby sphere; diameter(mm), 2.50; grade 25
42081	Ruby sphere; diameter(mm), 3.00; grade 25
42044	Ruby sphere; diameter(mm), 3.18 (1/8in); grade 25
42045	Ruby sphere; diameter(mm), 4.76 (3/16in); grade 25
42084	Ruby sphere; diameter(mm), 5.00; grade 25

Sapphire Spheres



Specifications for Grade 25 Sapphire Spheres

Diameter tolerance per half - ± 0.000025 in.

V block out of round in 120° angle - ± 0.000025 in.

Basic diameter tolerance - ± 0.0001 in.

Maximum surface roughness (arithmetic average) - 1.5 micro-inch

High purity metals and materials
Fundamentals for research



[Discover our range >](#)

Specialty Chemical Services
Custom made solutions
for your needs

[Find out more >](#)



42069	Sapphire sphere; diameter(mm), 0.50; grade 25
42067	Sapphire sphere; diameter(mm), 1.00; grade 25
42046	Sapphire sphere; diameter(mm), 1.19 (3/64in); grade 25
42066	Sapphire sphere; diameter(mm), 1.25; grade 25
42065	Sapphire sphere; diameter(mm), 1.50; grade 25
42047	Sapphire sphere; diameter(mm), 1.59 (1/16in); grade 25
42064	Sapphire sphere; diameter(mm), 1.75; grade 25
42063	Sapphire sphere; diameter(mm), 2.00; grade 25
42062	Sapphire sphere; diameter(mm), 2.50; grade 25
42061	Sapphire sphere; diameter(mm), 3.00; grade 25
42049	Sapphire sphere; diameter(mm), 3.18 (1/8in); grade 25
42060	Sapphire sphere; diameter(mm), 3.50; grade 25
42059	Sapphire sphere; diameter(mm), 4.00; grade 25
42050	Sapphire sphere; diameter(mm), 4.78 (3/16in); grade 25
42058	Sapphire sphere; diameter(mm), 5.00; grade 25

Алматы (7273)495-231
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Саранск (8342)22-96-24
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35

Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

<https://aesar.nt-rt.ru/> || arj@nt-rt.ru