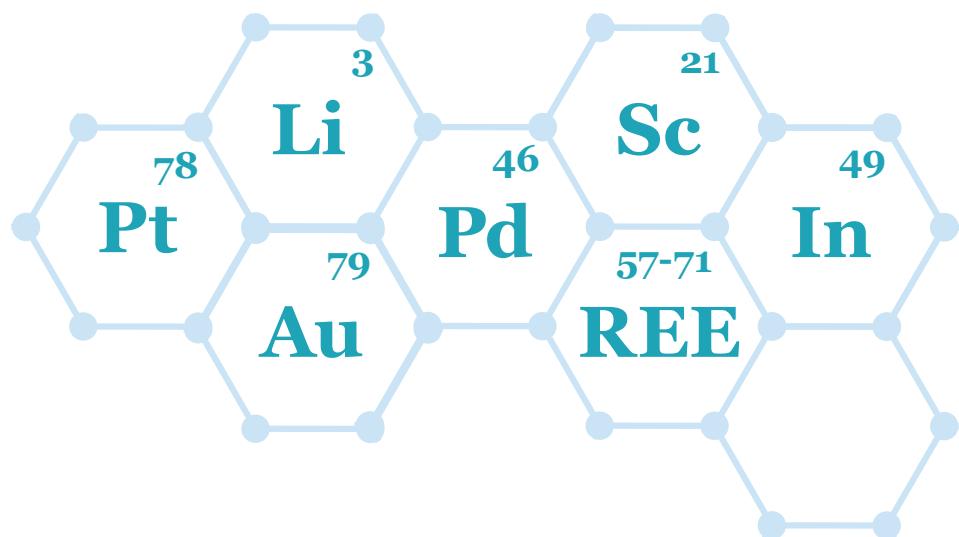


«Axion – Rare and Noble metals» JSC

- Development and production of selective ion-exchange resins AXIONIT for the sorption of rare, rare-earth, precious and other elements at the request of our customers.
- Supply of complex technological solutions based on selective sorption.

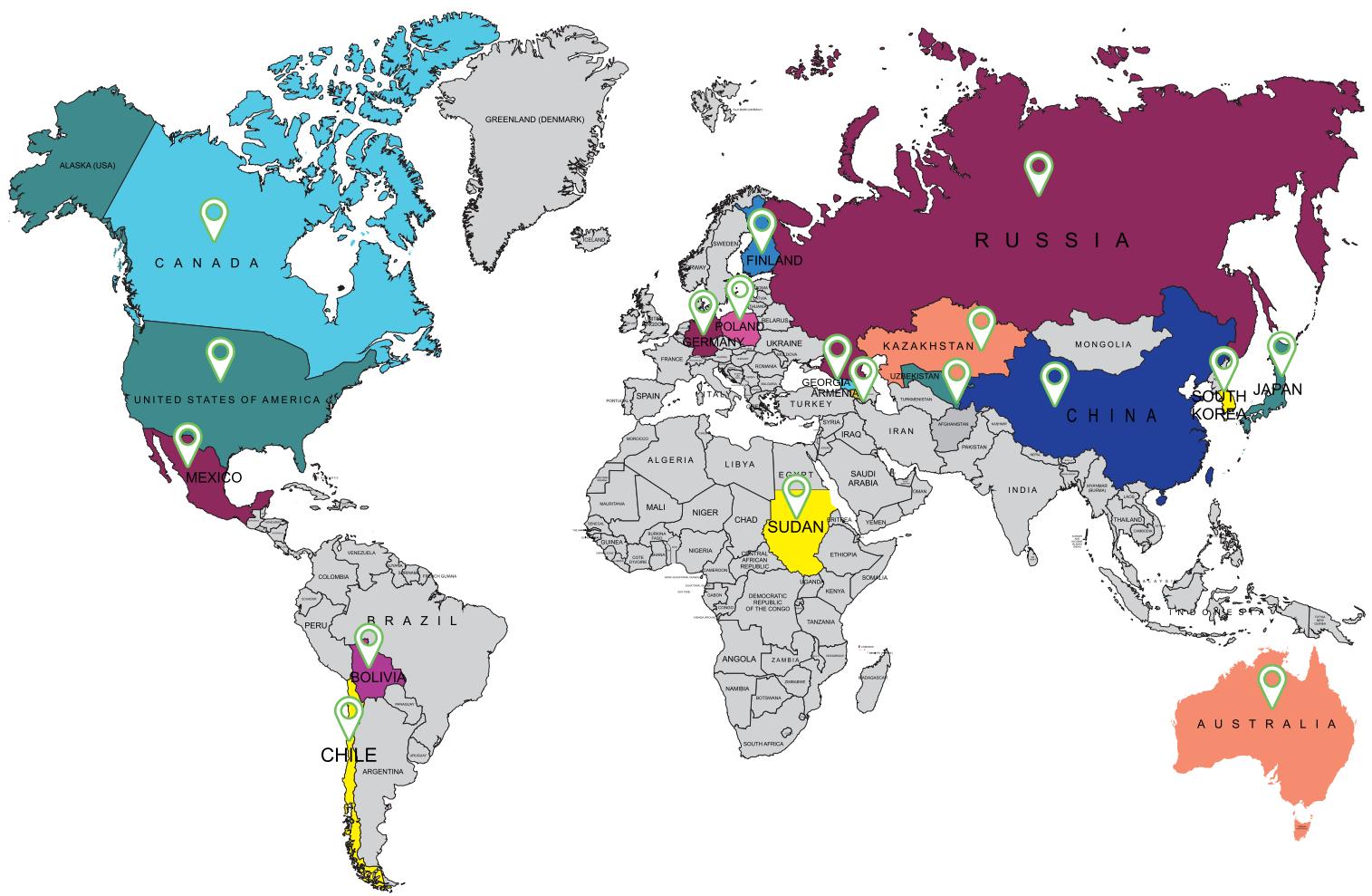


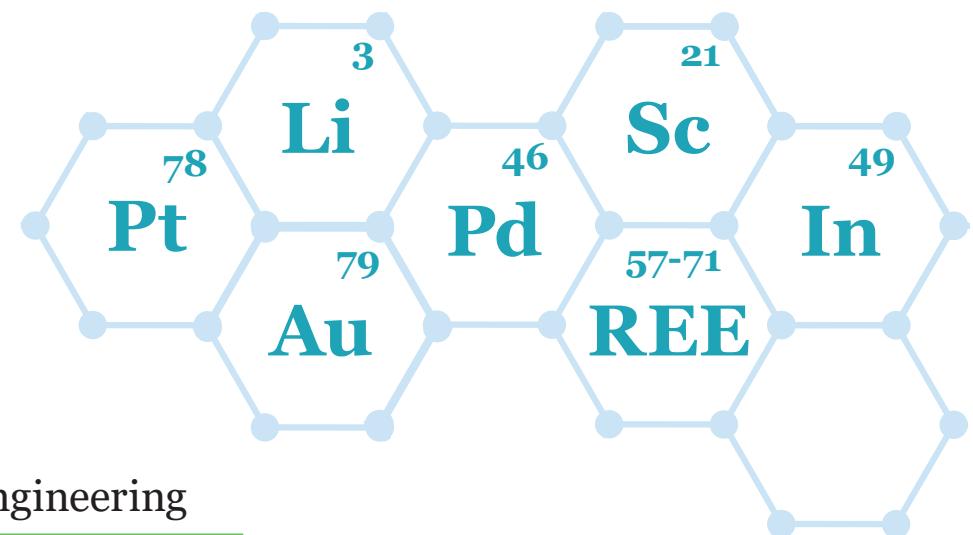


About company

JSC “Axion – Rare and Noble metals” is an innovative dynamically growing company involved in the development and further industrial production of advanced ion-exchange materials and technologies of high-yield recovery of rare, rare-earth and precious metals. Company is located in Perm city (Russia). We uses its modern development and production facilities.

Sales geography





Full-cycle technological engineering

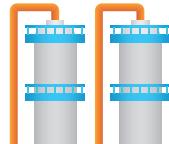


Process Chain Analysis

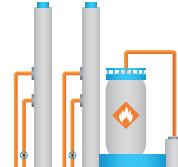
Resin supply,
production licensing



Integration of technological
solutions in the
production chain



Development, adaptation and
testing of ion exchange resins



Engineering of the
production process, pilot tests

Technical base



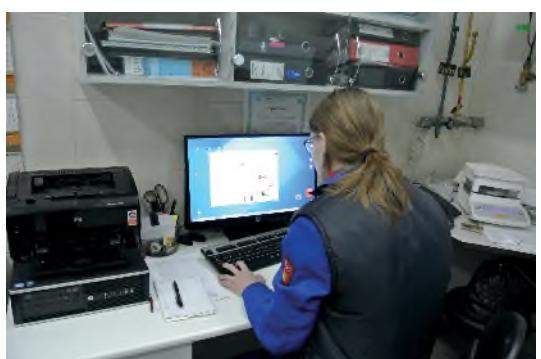
Spectrometer ICP-OES Prodigy 7



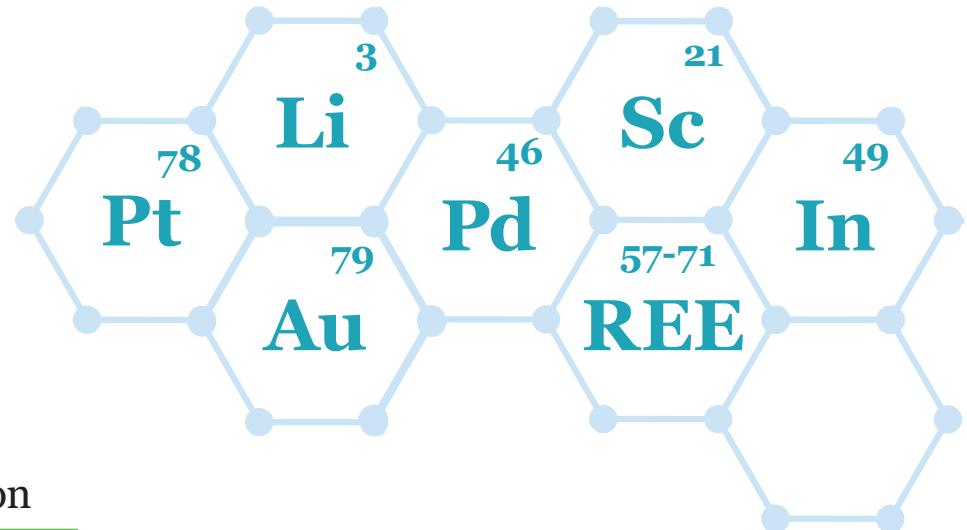
Fine synthesis reactor complex



Pilot industrial site for the production
of ion exchange resins



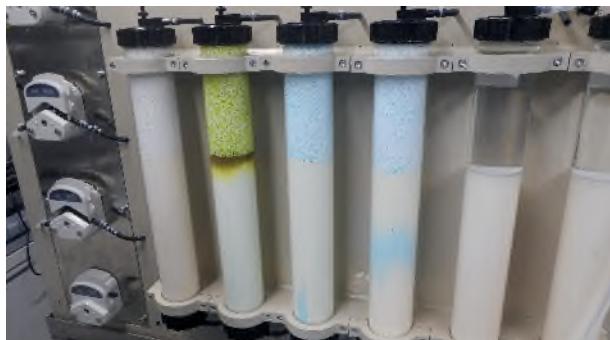
Development of automated
sorption units



The scope of our application

	Recovery of rare elements from produced water		Production radionuclides (Caesium, Molybdaenum, Americium), as well as purification of radioactive waste
	Recovery of metals from natural mineral raw materials and industrial wastes		Recovery Lithium from solutions and synthesis its substances for the manufacture of batteries
	The use of ion exchange resins for purification and refining precious metals		Treatment of sewage and liquid waste from heavy metals
	The use of ion exchange resins for recovery of Scandium from uranium leaching solutions		The use of ion exchange resins is constantly evolving and new areas are emerging

Completed projects



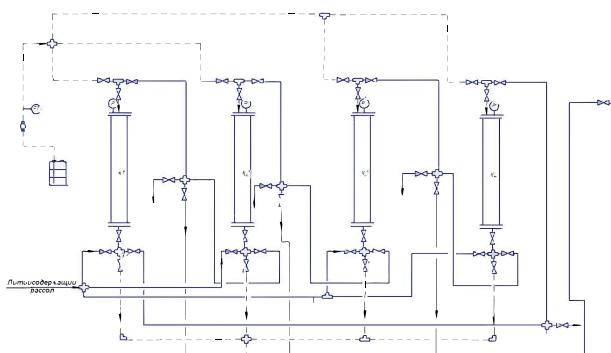
Palladium recovery unit, Russia



Lithium recovery unit, Russia



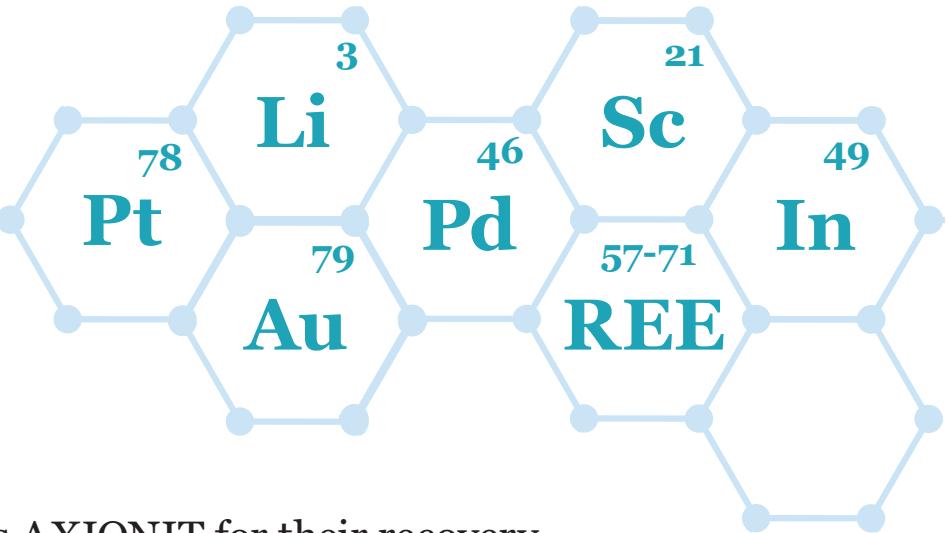
Development of a multifunctional corrosion inhibitor, Mexico



Development of installation for the recovery of Lithium from brines, Bolivia



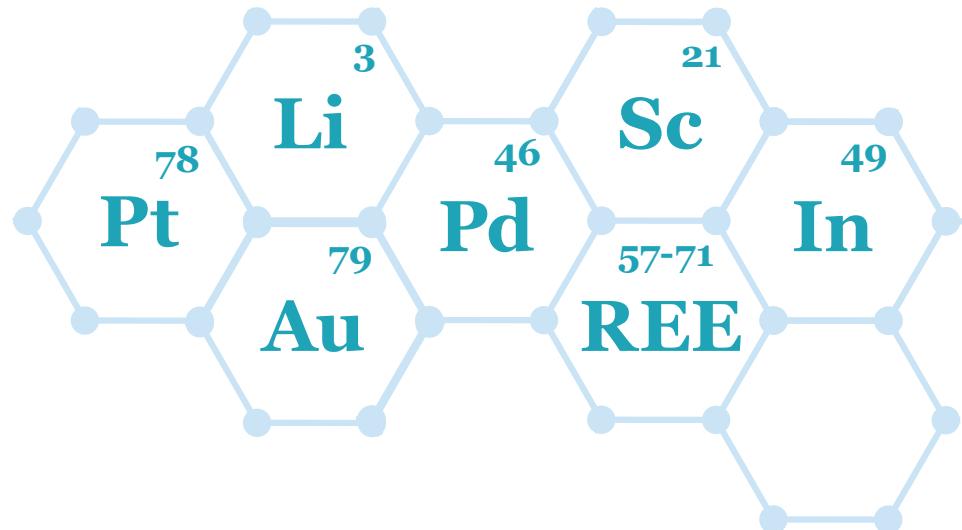
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Chemical elements and resins AXIONIT for their recovery

	A I B	A II B	A III B	A IV B	A V B	A VI B	A VII B	A	VIII	B
1	(H)						H	He		
2	Li Lithium Литий	6.941	Be Berillium Бериллий	9.0122	B Borium Бор	10.811	C Carboneum Углерод	12.011	N Nitrogenium Азот	14.007
3	Na Natrium Натрий	22.99	Mg Magnesium Магний	24.305	Al Aluminum Алюминий	26.9815	Si Silicium Кремний	28.086	P Phosphorus Фосфор	30.974
4	K Kalium Калий	39.098	Ca Calcium Кальций	40.08	Sc Scandium Скандиний	44.956	Ti Titanium Титан	47.90	V Vanadium Ванадий	50.941
5	Cu Cuprum Медь	63.546	Zn Zincum Цинк	65.39	Ga Gallium Галлий	69.72	Ge Germanium Германий	72.59	As Arsenicum Мышьяк	74.992
6	Rb Rubidium Рубидий	85.468	Sr Strontium Стронций	87.62	Y Yttrium Иттрий	88.906	Zr Zirconium Цирконий	91.22	Nb Niobium Ниобий	92.906
7	Ag Argentum Серебро	107.868	Ag Argentum Серебро	112.41	Cd Cadmium Кадмий	114.82	In Indium Индий	118.71	Sn Stannum Олово	121.75
	Cs Cesium Цезий	132.905	Ba Barium Барий	137.33	La* Lanthanum Лантан	138.9055	Hf Hafnium Гафний	178.49	Ta Tantalum Тантал	180.9479
	Au Aurum Золото	196.967	Hg Hydrargyrum Ртуть	200.59	Tl Thallium Таллий	204.38	Pb Plumbum Свинец	207.19	Bi Bismuthum Свисмут	208.980
	Fr Francium Франция	[223]	Ra Radium Радий	[226]	Ac** Actinium Актиний	[227]	Rf Rutherfordium Фезерфордий	[261]	Db Dubnium Дубний	[262]
	Ce Cerium Церий	140.12	Pr Praseodymium Празеодим	140.908	Nd Neodymium Неодим	144.24	Pm Promethium Прометий	144.91	Sm Samarium Самарий	150.36
	Th Thorium Торий	232.038	Pa Protactinium Протактиний	231.04	U Uranium Уран	237.05	Np Neptunium Нептуний	244.06	Pu Plutonium Плутоний	243.06
	Am Americium Америций				Am Americium Америций		Am Americium Америций		Cm Curium Кюрий	247.07
	Cm Curium Кюрий				Cm Curium Кюрий		Cm Curium Кюрий		Bk Berkelium Берклий	247.07
	Dy Dysprosium Диспрозий				Dy Dysprosium Диспрозий		Dy Dysprosium Диспрозий		Tb Terbium Тербий	158.926
	Ho Holmium Гольмий				Ho Holmium Гольмий		Ho Holmium Гольмий		Tb Terbium Тербий	162.50
	Er Erbium Эрбий				Er Erbium Эрбий		Er Erbium Эрбий		Tb Terbium Тербий	164.930
	Tm Thulium Тулий				Tm Thulium Тулий		Tm Thulium Тулий		Tb Terbium Тербий	167.26
	Yb Ytterbium Иттербий				Yb Ytterbium Иттербий		Yb Ytterbium Иттербий		Tb Terbium Тербий	168.934
	Lu Lutetium Лютенций				Lu Lutetium Лютенций		Lu Lutetium Лютенций		Tb Terbium Тербий	173.04
	No Nobelium Нобелий				No Nobelium Нобелий		No Nobelium Нобелий		Tb Terbium Тербий	174.967
	Lr Lawrencium Лауренсий				Lr Lawrencium Лауренсий		Lr Lawrencium Лауренсий		Tb Terbium Тербий	171.03

Li	Li Sorb2	Rb	Rb Sorb	I	I Sorb	Ce	MND40T, 9S, Eco-10	Yb	MND40T, 9S, Eco-10
Sc	NP-1, D2-P	Sr	Sr Sorb	Cs	RCS	Pr	MND40T, 9S, Eco-10	Lu	MND40T, 9S, Eco-10
V	C-272	Y	MND40T, 9S, Eco-10	La	MND40T, 9S, Eco-10	Nd	MND40T, 9S, Eco-10	Th	VPA-2
Fe	9S, 3S	Mo	TC-Z17E	W	W Sorb	Sm	MND40T, 9S, Eco-10	U	URG-1, URG-2
Co	C-272	Ru	TU	Re	WBR	Eu	MND40T, 9S, Eco-10	Am	MND40T
Ni	C-272	Rh	Rh Sorb	Ir	Ir Sorb	Gd	MND40T, 9S, Eco-10		
Cu	BPA, 3S	Pd	Pd Sorb	Pt	Pt Sorb	Tb	MND40T, 9S, Eco-10		
Zn	D2EHPA	Ag	UMKA-T	Au	Au Sorb, TBP	Dy	MND40T, 9S, Eco-10		
Ga	2S	Cd	Cd Sorb	Hg	1S	Ho	MND40T, 9S, Eco-10		
Ge	Ge Sorb	In	NP-1	Pb	1S	Er	MND40T, 9S, Eco-10		
As	As Sorb	Sb	NP-1	Bi	9S	Tm	MND40T, 9S, Eco-10		



Intellectual property

- 5 patents of Russia
- 2 patents of the USA
- 2 patents of China
- 2 EU patents
- 1 patent of India
- 1 patent of Japan



We are ready to discuss your task, in order to obtain an effective solution, to recover the target metal. Please contact us in any convenient way.



Our contacts

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