

## INTRODUCTION

Spolek pro chemickou a hutní výrobu, akciová společnost is a Czech chemicals manufacturer with a far-reaching track record and trading tradition. Our history dates back to 1856 and over the 150 years of our existence we have grown to become a modern company manufacturing various chemical substances and, most importantly, one of the leading European synthetic resin manufacturers.

For our customers we develop and produce quality products, provide above-standard servicing and good technical support. We boast modern operations and equipment and we manufacture products using clean and environmentally-friendly technologies. Our manufacturing plant, R&D facility and head office are located in an area of approx. 520,000 square meters in the heart of Europe – in Usti nad Labem, Czech Republic around 90 km north of Prague and 50 km south of Dresden.

Spolek manufactures and markets several innovative products uniquely suited to the needs of its customers. The company is serving a variety of industries and industrial sectors in two main areas – synthetic resins and inorganics chemistry.

Our resins portfolio comprises CHS-EPOXY® liquid resins, solid resins, solutions and other epoxy derivatives, TELALIT® hardeners for epoxy, CHS-ALKYD® solvent borne & high solid alkyd resins, CHS-HYDROSPOL® waterborne alkyd resins, and coatings and self-levelling flooring systems for construction applications EPOSTYL® & SADURIT®. The CHS-EPODUR® & SADURIT® filled and unfilled final systems based on epoxy resins offers fine-tune high performance applications in variety of special industries (composites, electro, and adhesives). We are global leader in environmental friendly synthetic resins and the first company in the world which obtain the EPD certificate (www.environdec.com) for liquid epoxy resins CHS-EPOXY G – Green Epoxy Resin.

The core of inorganics business is electrolytic chlorine production and sodium hydroxide and potassium hydroxide of high purity in both liquid and solid form. Besides chlorine and hydroxides we also produce other chemicals – epichlorohydrin, allylchloride, sodium hypochlorite, perchloroethylene, hydrochloric acid.



# کیمیا اکسیر آریسا

تأمین کننده مواد اولیه رنگ، رزین، پوشش، مرکب چاپ، ساختمان، چسب و پلاستیک



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Supplier of Raw Material in Paint, Resin, Coating, Construction, Adhesive and Plastic

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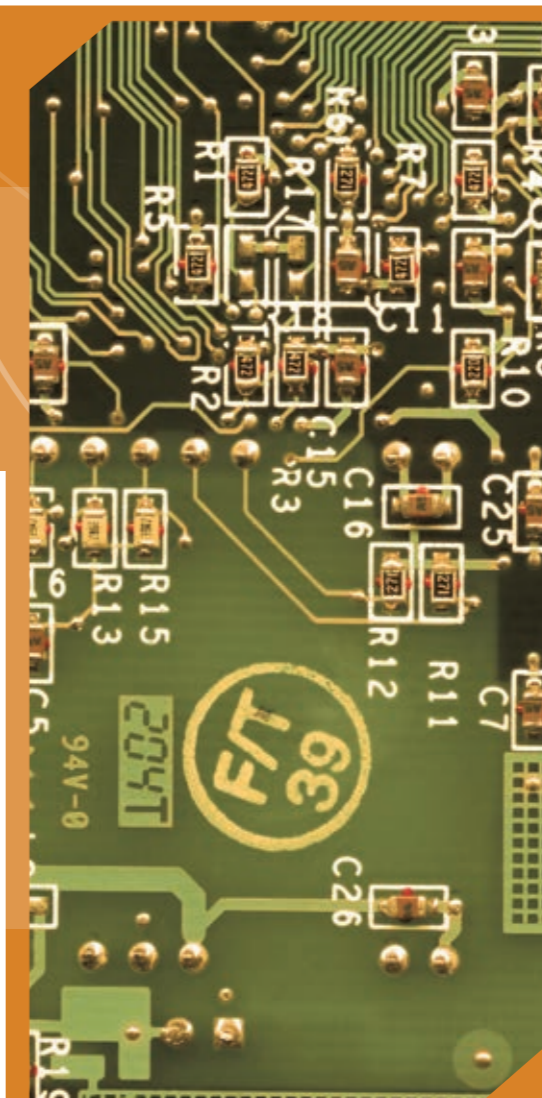
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# HARDENERS, REACTIVE DILUENTS

Your world of synthetic resins

## HARDENERS, REACTIVE DILUENTS

PRODUCT	VISCOSITY (25 °C, mPa.s)	AMINE NUMBER (mg KOH/g)	HEW (g/mol)	DESCRIPTION	APPLICATION
<b>HARDENERS</b>					
CHS-HARDENER P 11	5 – 10	1480 – 1680	21	Aliphatic amine	Standard, civil engineering, composites, adhesives
TELALIT 0309	50 – 70	1100 – 1200	30	Aliphatic polyamine, modified	Composites, civil engineering, accelerated, fast curing
TELALIT 0420	10 – 25	600 – 650	42	Cycloaliphatic amine	Composites, higher Tg
TELALIT 0430	5 – 50	1250-1320	43	Cycloaliphatic amine	Composites, civil engineering, faster curing, higher toughness
TELALIT 0492	15 – 30	550 – 600	49	Cycloaliphatic modified	Composites, civil engineering
TELALIT 0500	5 – 50	1100 – 1200	50	Cycloaliphatic amine	Composites, accelerated
TELALIT 0590	5 – 10	440 – 490	59	Polyoxyamine	Composites, long pot life
TELALIT 0600	80 – 100	450 – 500	62	Cycloaliphatic, modified	High performance composites, long pot life, highest Tg
TELALIT 0842	1100 – 1900	min. 290	84	Solvent free system, under water curing	Hardening in wet conditions, applicable in different weathering
TELALIT 0846	550 – 750	345-375	84	Mannich base without phenol, substitution for TELALIT 60	Universal hardener for epoxy systems, applicable in lower temperatures, unsuitable for food, beverages and drinking water
TELALIT 0903	200 – 500	320 – 350	90	Cycloaliphatic adduct modified	Self-levelling flooring, nonylphenol free, low yellowing
TELALIT 1040	10 – 30	230 – 260	104	Polyoxyamine	Waterborne coatings, High solid coatings, nonylphenol free / Experimental
TELALIT 1203 NF	50 – 400	250 – 300	120	Cycloaliphatic adduct, modified	For solventless or HS coatings, nonyl phenol free
TELALIT 160	170 – 600	110 – 135	350	Aliphatic adduct modified	Lacquers, anticorrosive coatings
TELALIT 180	750 – 1 100	130 – 150	243	Polyamine adduct modified	Waterborne systems
TELALIT 2608	5 000 – 7 000	95 – 115	260	Aliphatic and cycloaliphatic based modified	High performance super toughness adhesives
TELALIT 3404 X 70	700 – 2 000	145 – 165	340	Polyamide	Anticorrosive coatings, nonylphenol free
TELALIT 410	400 – 1 000	850 – 1 150	34	Aliphatic adduct	Composites, civil engineering
TELALIT 95	170 – 400	300 – 500	95	Cycloaliphatic adduct modified	Self-levelling flooring

PRODUCT	VISCOSITY (25 °C, mPas)	EPOXY INDEX (mol/kg)	HYDROLYSABLE CHLORINE (%)	COLOUR (Gardner)	DESCRIPTION	APPLICATION
<b>DILUENTS</b>						
CHS-EPOXY RR 300	40 – 90	2,90 – 3,30	max. 0.3	max. 1	Polypropyleneglycol diglycidyl ether	Flexibilizer, low toxicity and vapour pressure, reduced reactivity, limited diluting power
CHS-EPOXY RR 330	5 – 10	2,94 – 3,70	max. 0.1	max. 1	C12-C14 alkyl glycidyl ether	Low toxicity and vapour pressure, good diluting power, reduced reactivity
CHS-EPOXY RR 430	1 – 6	4,25 – 4,55	max. 0.05	max. 1	C8-C10 alkyl glycidyl ether	Low toxicity and vapour pressure, good diluting power, reduced reactivity
CHS-EPOXY RR 690	100 – 250	7,20 – 7,70	max. 0.1	max. 1	Trimethylol propane triglycidyl ether	Excellent mechanical strength and reactivity, hot water and solvent resistance, limited diluting power
CHS-EPOXY RR 700	15 – 25	6,70 – 7,20	max. 0.2	max. 1	1,6 – Hexanediol diglycidyl ether	Excellent reactivity at low temperatures and good solvent resistance, high mechanical strength, limited acid resistance
CHS-EPOXY RR 800	10 – 25	7,60 – 8,10	max. 0.2	max. 1	1,4 – Butanediol diglycidyl ether	Excellent reactivity at low temperatures and good solvent resistance, high mechanical strength, limited acid resistance

PRODUCT	VISCOSITY (25 °C, mPas)	EPOXY INDEX (mol/kg)	HYDROLYSABLE CHLORINE (%)	COLOUR (Gardner)	DESCRIPTION	APPLICATION
<b>CYCLOALIPHATIC EPOXY RESINS</b>						
CHS-EPOXY 560	500 – 1 300	5,50 – 6,10	-	max. 1	Hexahydrophthalic acid diglycidyl ester	Cycloaliphatic epoxy resin used for production of outdoor transformers, insulators, bushings etc.

Notes: <sup>1</sup>Linoleic rich fatty acids

\* Phenolic hardeners are produced based on agreed minimum selling batches. For more information please contact our sales representatives.

Given the large number of products in our range, it is difficult to show all in a schematic overview. For more information please contact us.