

Product Catalog

Solutions for Iron, Steel and Non-ferrous Applications





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Our wide product range comprises binders for all core manufacturing processes, coatings, additives, feeders, filters, release agents, metallurgical products including inoculants, Mg treatment wires, inoculation wires, and pre-alloys for iron casting. Core production and prototype development as well as a wide range of simulation services round off what the company has to offer.

Foundries have valued this broad product portfolio for many years. Yet the ASK Chemicals brand represents far more than its range of premium products. As a supplier of foundry chemicals it also supports foundries with services that cover the entire development and production process – developing, in close collaboration with the customer, solutions that offer real added value.

Design Services

for perfect casting results

Our Design Services team monitors the entire process from the development of the design concept and validation right up to the production of the cast part prototype. Our engineers have a wide range of experience and a clear understanding of all aspects of foundry technology and metallurgy. Our Design Services team has the right combination of design, production and simulation expertise, co-operates with external companies and service providers, and enjoys extensive industry experience. ASK Chemicals' simulation service offers wide-ranging technical knowledge and understanding combined with state-of-the-art simulation programs.

Benefits

- Higher productivity and optimized catalyst consumption
- Manufacturing process design, including inorganic technology
- Calculation of optimal feed

- Optimized design and manufacture of model plates, core boxes and molds
- Less scrap
- Shorter product launch times
- Quicker time to market

Simulation services

The simulation of casting processes provides foundries with invaluable casting mold information. Specifically, this benefit allows for the optimization of gating and feeding systems, overflows, venting design and risers. Moreover, it provides critical insight into the influences and effects directly related to casting integrity, such as cooling and heating measurements, filling and solidification times.

From the idea to the prototype

ASK Chemicals supports your entire process from the concept to prototype production.



Idea >> Concept >> Simulation >> Development of cores/molds

Core and cast prototyping >> Series production >> Success

Binders

For the most demanding foundry production processes

Our tried-and-true formulations have been adopted on a global scale and trusted for decades. We design our resin systems to withstand the most demanding foundry production processes. Furthermore, our dedication to research and development ensures cutting-edge resin technology for our customers' growing demands: reduced emissions, low VOCs, higher strength properties, improved shakeout, etc.



Core Production Process	Binder Systems	Hardener/Catalysts
Cold Box binders		
Polyurethane Cold Box	ECOCURE ISOCURE	Amine catalyst ISO-FAST
Epoxy Acrylic SO ₂ Cold Box	ISOSET THERMOSHIELD	SO ₂ catalyst
CO ₂ cured Cold Box	NOVANOL	CO ₂
Hybrid amine cured epoxy acrylate Cold Box	ISOMAX	Amine catalyst
Alkaline Phenolic Cold Box	BETASET	Methyl formate coreactant
No-Bake binders		
Resol-Ester No-Bake	ALPHASET	ALPHASET hardener
Polyurethane No-Bake	PEP SET	PEP SET catalyst
Furan No-Bake	ASKURAN MAGNASET CHEM-REZ	ASKURAN catalyst MAGNASET catalyst CHEM-REZ catalyst
Phenolic No-Bake	BERANOL CHEM-REZ	BERANOL catalyst CHEM-REZ catalyst
Warm Box/Hot Box	KERNFIX CHEM-REZ	HOTFIX CHEM-REZ catalyst
Alkyd No-Bake	LINO-CURE	LINO-CURE coreactant
Inorganic binders		
Inorganic No-Bake	INOBAKE	INOBAKE catalyst
INOTEC	INOTEC	-
Binders for 3D printing		
Resol-Ester No Bake for 3D Printing	NOVASET 3D	NOVASET 3D hardener
Furan No-Bake for 3D Printing	MAGNASET 3D	-
Inorganic binder for 3D printing	INOTEC 3D	-

Core production

Our range of products includes the production of cores and core packages as from a weight of 0.01 kg. We manufacture cores and core packages not only by Cold Box, Hot Box and Shell sand process, but also by inorganic method. Our modern technical equipment is designed for the production of prototypes and series. Thanks to our design-to-manufacture process, we are also happy to supply you with complete solutions from concept to completion.



Additives

More efficiency and better casting quality

Our additives are used to prevent casting defects or (partly) replace expensive special sands. In addition, technologically advanced additives facilitate uncoated casting. The latter offers potential for further productivity increases, especially in the area of Cold Box production.



Product	а	ind ppl atic	i-		Metal application						Re	cor	nm	end	ed :	seg	me	nts			Effects										
	Warm Box	No-Bake	Cold Box	Steel	CGI	IO	GI	SiMo	Aluminium	Turbo charger	Exhaust manifold	Truck cylinder head	Car engine block	Railway casting	Water jacket	Oil gallery core	Ventilated brake disk	Axle housing	General housings	Pumps	Hydraulic castings	Veining suppression	Penetration protection	Scabbing protection	Clean surface	Good shakeout with MF cores	Coating-free casting	Against tension cracks; insulating properties	Improved shake-out	Reduced condensate and gas	Other
Organic and re	nev	vab	le a	ddi	tive	S																									
VEINO 4312			•	•	-	•	•	-		•	-	-	-	-	•	•	•	•	•	-	•	•	•		•	•					
VEINO 4086			•	Ŀ	•	•	•	•		Ŀ	•	Ŀ	•	•	•	•	•	٠	•	•	•	•	•	•	•	•					
VEINO 4048			•	-	-	•	•	-		•	-	-	-	-	•	•	•	•	•	-	-	•	•		•	-	-				
VEINO W 39			•	•	-	•	•	•		•	•	-	•	•	•	•	•	•	•	-	•	•	•		•	-					
Environmentally friendly additives																															
ISOSEAL 1010									•																•		-		•	•	
ISOSEAL 4865			-	-	-		-	-		-	-		-	•		-	-	•	•	•	•	-	-	-	-	-	•				-
ISOSEAL 4873				-	-		-	-		-	-		-	•		-	-	•	•	•	•	-	-	-	-	-	-				-
ISOSEAL STL 210		-	•	-	-	•	•	-																				•			
High-performa	nce	hy	bric	l ad	diti	ves																									
VEINO ULTRA 4874			•	-	-	-		-		-	-	•	•	-	•	•	•	-		-		•	•		•	-	•				
VEINO ULTRA 4596				-				-		-	-		•		•	•	•				-	•			•	-	•				
VEINO ULTRA 3030													•		•		•					•			•		•				
VEINO ULTRA 4273				-				-		-	-						•				-	-			-	-					
VEINO ULTRA 4230/2				-	-			-		-	-				•		-			-		-			-		-				
VEINO ULTRA 3895				-			-	-		•	-		-	-			-				-	•			-						
VEINO ULTRA RS 4				-	-			-			-						-			-					-		-				
VEINO ULTRA RS 2																	•	•	•			•									
VEINO ULTRA 2000				-	-			-			-		-							-		-			-						

■ = suitable, ■ = highly suitable

Shell sand

ASKRONING sand is available for aluminum, copper and iron applications. ASK Chemicals also offers shell sand for special applications.

Coatings

No casting defects, but instead perfect surfaces and important additional benefits

Our coatings are much more than a simple barrier between sand and metal. They are high-tech systems that play a significant role in determining the surface quality of the casting and systematically eliminate typical surface defects.



Courtesy of Eisenwerk Brühl

Water-based coatings

Product	Color	A		olic on	:a-		Bi	nd	ler			N	Лe	tal	s		Application						F	roperties	
		Dipping	Flowcoating	Spraying	Brushing	Epoxy-S0,	Cold Box	Hot Curing System	Silicate/Resol-CO ₂	No-Bake	Steel	Manganese steel	GI	DI	Copper	Aluminium	Typical application	Solvent	Veining suppression	Metallization protection	High gas permeability	High layerforming possible	Matting time	Special effects	Density (undiluted) g/cm³
CERAMCOTE AL-Series		-		-	-												Full Mould and Lost Foam Process	W	-			•	•	Excellent application properties	1.4
CERAMCOTE FS 402			-	-									-	-			Full Mould and Lost Foam Process	W	-	-	-	-	•	Excellent application properties	1.7
CERAMCOTE FS 503		-	-	-							-	-	-	-			Full Mould and Lost Foam Process	W	-	-	-	•	•	Excellent application properties	1.8
MIRATEC AC 503				-				-								-	Aluminum casting (e.g. engine blocks)	W					••	Excellent release properties	1.5
MIRATEC BD-Series		-					-							-			Automotive casting (e.g. brake disks)	W	-	-	-	•	•	Short matting time	1.3
MIRATEC TS 416														-			Automotive casting (e.g. brake discs, cylinder heads)	W	-	-	•	•	•	short matting, reduced retaining dust in casting	1.3
MIRATEC DH 402		-															Universal coating (e.g. housing elements)	W	-	-	•		•	Enhanced refractoriness	1.4
MIRATEC GH 401								-						-			Universal coating (e.g. gearbox housings)	W	-	-			•		1.4
MIRATEC HC 501		-						-									Automotive casting (e.g. engine blocks & hydraulics castings)	W	-				0		1.4
MIRATEC HY-Series																	Automotive casting (e.g. cylinder heads, engine blocks)	W					•	Alcohol-dilutable	
MIRATEC MB 422 / 522 / 622	div	-		-		-	-	-					-	-			Universal coating newest generation	W	-	-	-	-	••	with / without grafit content available	1.3
MIRATEC MB 501								-						-			Automotive casting (e.g. cylinder heads, engine blocks)	W	-	-			•		1.4
MIRATEC TS-Series		-						-					-				Automotive casting (e.g. cylinder heads, engine blocks)	W				•	••	Reduced retaining dust in casting	1.3
MIRATEC TS 417																	Automotive casting (e.g. cylinder heads, engine blocks)	W			•	•	••	Reduced retaining dust in casting	1.3
SOLITEC AD-Series				-	-												Aluminum - permanent die casting	W						Long life of die; clean casting surfaces	
SOLITEC CC-Series				-					-		-			-			Centrifugal casting	W		-	-	-		Different insulating properties adjustable	
SOLITEC HI 703					-					-					-		Heavy casting (e.g. wind power rotor hubs, water- and steam-operated turbines)	W					•	High degree of refractoriness; disables grafite degeneration; zircon-free	1.8
SOLITEC HY-Series				-	-	-	٠	-		-				-		0	Universal coating (e.g. machine housings)	W	•	•			0	Alcohol-dilutable	
SOLITEC IM 702		ŀ	-	-		-			-		-		-	-			Steel- & Heavy casting (e.g. machine platforms, naval Diesel engines)	W		-			••	Impregnating coating; zircon-free	1.9
SOLITEC MS-Series		-	-	-									-		-		Ladle and pouring spoon	W						Reduces slag adherence	
SOLITEC ST 901			-	-				-	-			_	-				Heavy casting (e.g. wind power rotor hubs)	W	0				0		
SOLITEC ST 801				-													Heavy & steel casting (e.g. pump housings)	W		•			0	Zircon-free	2.0
SOLITEC WP 401			-	-	-		-	-	-	•			-	-		0	Heavy casting (e.g. wind power rotor hubs, water- and steam-operated turbines)	W	-	-			0	Fastened drying on air; disables grafite degeneration; zircon-free	

 $E = ethanol, \ I = isopropyl, \ W = water, \ \Box = partity \ suitable, \ \blacksquare = particularly \ suitable, \ \bullet \bullet very \ slow, \ \bullet \ medium, \ \bullet \ fast, \ \bullet \bullet very \ fast$

Alcohol-based coatings

Product	Color	Α	pp tic	lic on			Bi	nd	ler			N	Лe	tal	s		Application						Р	roperties	
		Dipping	Flowcoating	Spraying	Brushing	Epoxy-S0,	Cold Box	Hot Curing System	Silicate/Resol-CO ₂	No-Bake	Steel	Manganese steel	GI	DI	Copper	Aluminium	Typical application		Veining suppression	Metallization protection	High gas permeability	High layerforming possible	Matting time	Special effects	Density (undiluted) g/cm³
VELVACOAT AC 501 / 503		-							-					-		-	Aluminum casting (e.g. housing elements)	Ε	-				••	Retarded flaming	1.1
VELVACOAT CC 601				-	-	-			-					-			Universal coating (e.g. socket cores)	Е		-			•	Excellent release properties	1.2
VELVACOAT GH 501 / 502		-		-	0	-			-					-	0	0	Pump housings, counterweights, gearbox housings	I/E		-			••	Cold Box universal coating	1.2
VELVACOAT GH 701 / 702		ŀ				-			-	-				-			Electric motor housings	I/E		-			••	Extreme high permeability; IPA-free availablle	1.1
VELVACOAT HI 602 / 605					-				-					-			Universal coating (e.g. counter weights, wind power rotor hubs, gearbox housings)	I/E	•	-			•	High yield; IPA-free available	1.5
VELVACOAT HI 704 / 707				-		-		-	-	-				-			Universal coating (e.g. medium-sized gearbox housings, pump housings)	I/E	-				•	Improved remixing; less setting property	1.5
VELVACOAT HI 703 / 733		ŀ	-	-	-	-	-	-		-			-		_		Heavy casting (e.g. wind power rotor hubs, water- and steam-operated turbines)	1		-			•	High degree of refractoriness; diables grafite degeneration; zircon-free	1.6
VELVACOAT IM 701				-	-	-		-	-	-	-	0	-	-	-	-	Universal coating (e.g. medium-sized gearbox housings, pump housings)	1		•			•	Impregnating coating; zircon-free	1.8
VELVACOAT IM 801		ŀ			-	-					-			-		-	Universal coating	1		•			•	Impregnating coating	1.8
VELVACOAT IM 801 (DOSE)				-	-	-			-				-				Universal coating	1					•	Impregnating coating; ready to use in spray cans	1.8
VELVACOAT RP 901						-											Rapid Prototyping, all alloys	1					0	Excellent application properties; water-free system	1.9
VELVACOAT ST 603 / 606			-	-	-	-		-		-	-	-	-	-	-		Heavy & steel casting (e.g. pump housings)	1		-			0	Excellent flooding properties	1.7
VELVACOAT ST 702		-		-	-	-		-		-	-		-	-	-	-	Heavy & steel casting (e.g. pump housings)	1					o	Excellent flooding properties; water-free system	1.9
VELVACOAT ST 701 / 707			-	-	-	-		-		-	-		-	-	-		Heavy & steel casting (e.g. water- and steam-operated turbines)			•			•	High degree of refractoriness	2.2
VELVACOAT ST 801			-	-	-	-			•	-	•	-	-	•	-		Heavy & steel casting (railroad switches, mill work parts)	1		-			0	Manganese steel / universal; water-free system	1.8

 $E = ethanol, \ I = isopropyl, W = water, \ \Box = partly \ suitable, \ \blacksquare = suitable, \ \blacksquare = particularly \ suitable, \ \bullet \bullet very \ slow, \ \bullet \ slow, \ \bullet \ medium, \ \bullet \ fast, \ \bullet \bullet very \ fast$

Auxiliary product overview

		Product
2	Cold Box processes	ECOPART 46, ECOPART CB H 18-350, ECOPART 102 C, ECOPART 756, ECOPART 56 (D), ECOPART FR 54 N D
Release agents	No-Bake processes	ECOPART LP 89, ECOPART 80 S, ECOPART 84 S, ECOPART 102 C
elease	Hot-curing processes	ECOPART H 17-250, ECOPART H1-350, ECOPART H2-350
Œ.	Green sand processes	BENTOGLISS*
Cleaners		ZIP-CLEAN CB 19
Adhesives		ASKOBOND
Core putty filler	rs	ASKOPASTE
Cope seals		ASKOROPE
Vents		ISOVENTS

Mini-risers and feeder caps

Highest quality and process reliability

Mini-risers and feeder caps from ASK Chemicals represent maximum quality and process reliability in the foundry industry. Our patented exothermic technology is uniquely effective – an industry-leader even combined with productivity-boosting enhancements. Our products are available as both inorganic and Cold Box variants.



Cast material	Molding process	Application		EX	ACT	CAS ⁻	T mir	ni riso	ers		Ó	EXACTCAST caps and tubes						
			ADS and KMV	ADS and KMV with breaker core	FDS	KMVQT	BKS and KMV Q M	KIM	KIM Q M	OPTIMA KL and KMV CC	КР	KP with breaker core	¥	KI with breaker core	KT (insulating)			
	Machine molding	put on mold		•		•	•			•		-	•	•				
5	Wacinile molung	insert in mold						•			-	-	-	-				
O	Hand molding	put on mold	•	-		-					-	-	-	-				
	Tianu moiding	insert in mold						•			•		•	•				
	Machine molding	put on mold	•	•		•	•		•	•	•		•	•				
	Wacinite molarity	insert in mold						•			-	-	-	-				
	Hand molding	put on mold	•	-		-						-	-	-				
	Tiana molaing	insert in mold						-			-	-	-	-				
	Machine molding	put on mold	-	-	-	•	•	0	-	•	•	-	-	-				
CGI	Wacinite molaling	insert in mold						•			-	-	-	-				
O	Hand molding	put on mold	•	-		•		•				-	-	-				
	Tiana molaling	insert in mold						-			-	-	-	-				
	Machine molding	put on mold	■ 1				0	0			•	-	-	-				
တ္သ	Watering moraling	insert in mold						•			-	-	-	•				
O	Hand molding	put on mold	■ 1									-	-	-				
	Tiana molaling	insert in mold												•				
ဟ	Machine molding	put on mold			□ ²						•	-	-	-	_			
no.	Machine molding Hand molding	insert in mold									•	•	•	•	•			
Nerr		put on mold									•	-	-	-	-			
4	Tidita Hibidilig	insert in mold													-			

 $\square =$ partially suitable, $\blacksquare =$ suitable, $\blacksquare =$ recommended

^{1 =} the big KMV risers are particularly suitable, 2 =FDS risers in a special version for Al are possible

Filters

Efficient filtration technology

With UDICELL and EXACTFLO filters, foundries use an efficient filtration technology that guarantees the highest casting quality thanks to cleaner cast metals. Our filters are recommended for steel and iron casting as well as for non-ferrous metals.



Rough classifi- cation	Materials	Molding process/alloy	Typical filter qualities used	UI	DICE	LL	EX	ACTF	LO
				UDICELL PSZT	UDICELL PSZM	UDICELL CB	EXACTFLO SIC	EXACTFLO Alumina	EXACTFLO P
	Gray cast iron	Machine molding	Silicon carbide (SiC), pressed filter				•		•
	dray cast from	Machine molding/large castings	Silicon carbide (SiC), pressed filter		-		•		•
ee	Duatila iron	Machine molding	Silicon carbide (SiC)				-		
Ferrous and steel casting	Ductile iron	Machine molding/large castings	Silicon carbide (SiC), pressed filter Zirconia filter, carbon-bonded filter		•	-	-		
rous and casting	Varrai autan asat iran	Machine molding	Silicon carbide (SiC), pressed filter				-		•
Fer	Vermicular cast iron	Machine molding/large castings	Zirconia filter, carbon-bonded filter	-	•	-	-		
	Cost stool	Carbon- and low alloyed steel	Zirconia filter, carbon-bonded filter		-				
	Cast steel	Stainless steel	Zirconia filter	-	•	0			
10	Light motals	Casting	Silicon carbide (SiC), alumina filter				-	•	
errous	Light metals	Primary/sec. melting plants	Alumina filter					•	
Non-ferrous casting	Haarri matala	Casting	Silicon carbide (SiC), zirconia filter				-		
2	Heavy metals	Primary/sec. melting plants	Silicon carbide (SiC), zirconia filter	-	•		-		
ment	Ferrous- and non-	Lost wax process	Zirconia filter, alumina possible too		•			0	
Investment casting	ferrous metals	Ceramic mold	Alumina filter, zirconia possible too	-	•			•	

Metallurgical Products

Greater process safety

ASK Chemicals supplies and manufactures high-quality metallurgical products for global foundry production. From furnace-based applications to late inoculation inputs, our holistic products for iron casting provide guaranteed and consistent results.



Product overview

▲ do	Melt preparation	SiC, FeMn, FeSi
Melting shop	Pre-conditioning	DISPERSIT, cerium misch metal (CerMM), VL (Ce) 2
Me	Mg treatment	FeSiMg – master alloy, NiMg – master alloy INFORM – Mg treatment wires
ment	Inoculation	Ladle inoculants, cored wire, in-stream inoculants, mold inoculants GERMALLOY, OPTIGRAN, SMW insert
Melt treatment	Melt cleaning	REMMOS, DISPERSIT
Ž V	Specialties	CerMM, FeS, mold powder, CaC ₂

Cored wires

This offers flexibility with regard to changing initial conditions such as the sulfur content, treatment temperature, and iron quantity. Additionally, relatively constant Mg values can be achieved despite different initial sulfur values and treatment temperatures. Lastly, handling and treatment costs can be reduced. Environmentally friendly thanks to targeted exhausting. Our INFORM inoculation wires are available with the same elements as our mold and granular inoculants.



Active elements of the inoculants and recommended field of application

Active elements	Ductile iron	and gray iron	Ducti	le iron	Gray iron	Compacted graphite iron		
Al	lnog	on 75	VP 216/116,	GERMALLOY	-	Inogon 75		
Ca	inogo	en 75		_	_	Inogen 75		
Ва	SB 5	Inoculoy 63		_	_	_		
Mn	ZM 6	illoculty 65		_	VP 316, OPTIGRAN			
Zr	ZIVI O	OPTINOC Z		_	-	_		
Ca	_	OPTINUG Z		_	_	_		
Bi	_	_	SMW 605, SMW insert type 1		_	_		
CerMM	_	CSF 10	Some moore type i	SAW 304, SMW insert type 2	-	-		
Al	_	_	-		_	_		
La	_	LSF 2		_	-	-		
Sr	SRF 75	_		_	-	SRF 75		
Ti	-	_		_	LC Graphidox	LC Graphidox		

Master alloys

FeSiMg type*		Typica	compos	ition	
			by weigh		
	Mg	CA	CerMM	Si	La
VL 63 (M)	6.0-6.5**	1.9	0.7	45	_
VL 63 (0)	6.0-6.5**	1.9	_	45	_
VL 63 (M) TC	6.4-7.0	1.3	0.7	45	_
VL 63 (M) 3	6.0-6.5**	1.9	0.3	45	_
VL 63 EGT	6.0-6.5	1.9	0.15	45	_
VL 63 (M) T	6.0-6.5	3.0	1.0	45	-
VL 63 LA	6.2-6.8	1.8	-	45	0.5
VL 73 (M)	7.0-7.6	2.5	2.5	45	-
VL 73 (0)	7.0-7.6	2.5	_	45	_
VL 73 (E)	6.7-8.0	2.5	1.3	45	_
VL 53 (M)	9.0-11.0	2.0	0.7	44	_
VL 53 (0)	9.0-11.0	2.0	-	44	_
VL 53 (S)	8.0-9.5	3.0	3.5	43	_
VL 50 (M)	5.0-5.5	1.9	0.7	45	-
VL 50 (0)	5.0-5.5	1.9	_	45	_
DENODUL 5	5.0-6.0	1.5	2.5	45	-
NODULOY 3	3.8-4.3	0.7	1.3	45	_

NiMg type*		Typic	al com	positio	n		Lumpi- ness
		9/	6 by we	eight			
	Mg	С	Si	Fe	ММ	Ni	mm
VL 1 (LC)	15-17.5	0.1 max.	2.0 max.	1.0 max.	_	Re- mainder	12-50 150 max.
VL 1 (M)	15-17.5	2.0 max.	2.0 max.	1.0 max.	1.0	Re- mainder	150 max.
VL 4 (M)	4.5-6.0	2.5 max.	2.5 max.	32-37	1.0	Re- mainder	Ingots 2.5 kg
VL 4 (0)	4.5-6.0	2.5 max.	2.5 max.	32-37	_	Re- mainder	or 0.8 kg

 $^{^{\}ast}$ other VL types on request

^{*} Separate analyses on request

 $^{^{**}}$ Exception for grain size 0.125–1 mm: 5.4–6.0 $\!\%$ Mg

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ALPHASET, ASKOBOND, ASKRONING, ASKURAN, BERANOL, BETASET, CERAMCOTE, CHEM-REZ, DENODUL, DISPERSIT, ECOCURE, ECOPART, EXACTCALC, EXACTCAST, EXACTFLO, EXACTPORE, FLEXPOUR, GERMALLOY, INFORM, INOBAKE, INOTEC, ISOCOTE, ISOCURE, ISO-FAST, ISOMAX, LINO-CURE, MAGNASET, MIRATEC, NOVACURE, NOVANOL, NOVASET, OPTIGRAN, OPTINOC, PEP SET, REMMOS, SMW-INSERT, UDICELL, VEINO, VELVACOAT, ZIP-CLEAN, ZIP SLIP.

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