

Fatal and non-fatal accidents in chemical fiber in Japan in 1999-2021

chemical fiber industry Code No.010802

Type of accidents in chemical fiber in 1999-2021

Type of accidents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Type of accidents
fall from height	3	6	5	3	6	1	5	4	5	2	1	6	2	4	4	3	1	4	3	3	2	2	1	76	fall from height
falling to same level	8	9	6	4	6	6	5	6	5	6	3	4	3	4	5	5	1	5	6	4	8	1	8	118	falling to same level
crash		2	1			3	1	1	1	4	1		1	1	2	1	1	1	2		2	1	1	27	crash
struck by flying or falling object	2	4	1	3		2	1	4		2			2	2	1	2	2		1	1	1			31	struck by flying or falling object
collapse		2		2		1			1					1									1	8	collapse
crashed by	2		2	2	1		1		1	1		1	1	1	1	1	5		1	1			2	24	crashed by
caught in/between	25	27	21	23	13	18	14	10	20	15	9	8	9	12	16	13	11	14	15	10	11	11	8	333	caught in/between
cut	3	1	8	7	3	2	5	1	5	2	1	3		3	2		1	1	2	2	1		5	58	cut
injury to the sole of the foot					1	1																		2	injury to the sole of the foot
drown			1																					1	drown
contact to high/low-temperature	3	6	2	3	2	1	1	1	1	2	1	1	1	1	1	1	1	1	3	2	3		2	40	contact to high/low-temperature









engine																					1	1	engine		
power transmission mechanism			2				1		1	2						1	1		1	3	1		1	14	power transmission mechanism
circular sawing machine			1																			1	2	circular sawing machine	
band sawing machine																								band sawing machine	
wood planer machine																								wood planer machine	
hollow chisel mortiser, wood borer																								hollow chisel mortiser, wood borer	
chamfering machine, router, woodworking milling machine																								chamfering machine, router, woodworking milling machine	
chain saw																								chain saw	
other woodworking machines																								other woodworking machines	
leveling, transporting or loading machine																								leveling, transporting or loading machine	
excavating machine																								excavating machine	
foundation work machine																								foundation work machine	



machine																										machine
food manufacturing machine																										food manufacturing machine
printing machine			1	2	2																			1	6	printing machine
industrial robot																								1	1	industrial robot
other general power machines			10	5	13	4	8	8	3	9	6	6	7	6	10	6	7	6	9	4	2				129	other general power machines
felling machine																										felling machine
mobile logging machine																										mobile logging machine
skyline yarding machine																										skyline yarding machine
other mobile silviculture machine																										other mobile silviculture machine
crane																										crane
mobile crane																										mobile crane
derrick crane																										derrick crane
elevator, lift																										elevator, lift
cargo lifting appliance																										cargo lifting appliance
gondola																										gondola
lumberyard equipment, logging																										lumberyard equipment, logging





gas welding equipment																								gas welding equipment	
arc welding equipment																								arc welding equipment	
other welding equipment																								other welding equipment	
kiln, caldron																								kiln, caldron	
industrial dryer											1			1									2	industrial dryer	
other kiln, caldron																								other kiln, caldron	
transmission																								transmission	
electric power facilities																		2					2	electric power facilities	
other electrical equipment																								other electrical equipment	
human power cranes																1							1	human power cranes	
human power hauling equipment			1		3		1	1				1		3	1	1			1	2	1			16	human power hauling equipment
human power machine									1															1	human power machine
hand tool			5		3			1		2	1		1	1	1		1		1	1	1	1	5	25	hand tool
ladder					4		2	2	2		1	2		1	1			2	1			1	1	20	ladder
slinging tool								2																2	slinging tool
other tools					1		1		2	2			2		1	1		1	2					13	other tools



harmful substances				1		1			1		1	1			2	1		1					9	harmful substances	
metal material				1		1	3			1									1	1			8	metal material	
lumber, bamboo						1											1						2	lumber, bamboo	
stone, sand, substance																								stone, sand, substance	
other materials							1		1	1	2				1	1	1			1			9	other materials	
load			2			2	2	4	2		2	2	4	5	1	1	2	2	3			1	35	load	
machine/equipment as load						1																	1	machine/equipment as load	
natural ground, rock																								natural ground, rock	
standing tree														1									1	standing tree	
water																								water	
abnormal environment																								abnormal environment	
high/cold temperature environment															1			2		1			4	high/cold temperature environment	
other environments				1							2				1			2					6	other environments	
other causal agent							1	1					1						1	2		2	8	other causal agent	
no causal agent			1		2		2			1			2	2		1		1	1	2	2	1	18	no causal agent	
unclassifiable			2															1					3	unclassifiable	
total			52		35		39	30	43	38	16	28	22	36	39	29	28	28	39	28	32	18	32	612	total

Workers age of fatal and non-fatal accidents in chemical fiber in 1999-2021

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Age
19 years old or less		2		2	2		1	1	3	1	1	1	2	1						1		1		19	19 years old or less
20-29	11	12	9	12	4	11	10	6	7	5	2	4	5	6	4	6	6	5	9	4	4	4	9	155	20-29
30-39	7	14	7	10	11	5	8	4	11	8	6	5	4	11	10	6	6	7	6	6	9	3	6	170	30-39
40-49	12	10	12	11	5	5	5	5	12	3	2	6	3	9	7	6	10	10	8	9	13	4	3	170	40-49
50-59	16	23	20	15	12	16	12	9	7	12	5	9	5	3	12	6	3	5	11	5	4	5	9	224	50-59
60 years old or more	4	3	4	5	1	4	3	5	3	9		3	3	6	6	5	3	1	5	3	2	1	5	84	60 years old or more
total	50	64	52	55	35	41	39	30	43	38	16	28	22	36	39	29	28	28	39	28	32	18	32	822	total

Workers' number of workplace of fatal and non-fatal accidents in chemical fiber in 1999-2021

Workers scale	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Workers scale
9 workers or less	5	6	5	9	4	3	4	5	4	2		1		4	1		3		1	2	1	1	1	62	9 workers or less
10-29	9	10	9	10	9	6	10	8	6	4		5	4	13	7	5	8	4	7	8	1	1	10	154	10-29
30-49	5	9	7	9	2	4	5	2	8	3	2	3	3	2	4	3	3	3	3		3		2	85	30-49
50-99	6	12	5	5	4	8	1	2	4	5	3	7	5	2	4		3	5	5	1	3	2	3	95	50-99
100-299	11	12	10	15	6	8	7	6	11	15	5	7	6	8	7	15	3	9	11	7	14	10	10	213	100-299
300 workers or more	14	15	16	7	10	12	12	7	10	9	6	5	4	7	16	6	8	7	12	10	10	4	6	213	300 workers or more
total	50	64	52	55	35	41	39	30	43	38	16	28	22	36	39	29	28	28	39	28	32	18	32	822	total

Month of fatal and non-fatal accidents in chemical fiber in 1999-2021

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Month
January	6	4	4	9	4	4	1	3	2	2	3	5	2	6	2	4	4	3	3	2		3	2	78	January
February	3	4	4	3	3	3	4	2	3	2	2		1	5	6	2	5	3	5	4	8	1	5	78	February
March	4	4	6	4		4	3	2	5	4			3	4	3	1	1	2	5	4	5	4	2	70	March
April	4	8	3	6	2	6	5	1	2	5	1	2	5	4	1	4	1	2		1	3	1	6	73	April
May	3	6	6	3	1	6	1	3	4	2	1	3	2	5	2	1	3	2	2			1	4	61	May
June	4	3	3	3	4	1	2	1	4	2	4	5	1		6	2	1	1	5	3	1	3	3	62	June
July	3	7	5	3	5	5	7	1	6	3		1		4	3	4	4		3	3	4	2	2	75	July
August	2	2	4	4	5	2	2	2	4	4	1	2	1	1	3	3	2	3	4	2	3			56	August
September	8	6	4	6	4	4	2	3	1	4		5		3	3	1	3	3	1	2	1		1	65	September
October	5	7	6	10	2	2	5	1	3	4	1	3	2	1	5	3	2	2	1	6	3	1	2	77	October
November	5	4	4	2	3	3	4	8	5	2	1	1		2	5	3	1	5	5	1	2	2	1	69	November
December	3	9	3	2	2	1	3	3	4	4	2	1	5	1		1	1	2	5		2		4	58	December
total	50	64	52	55	35	41	39	30	43	38	16	28	22	36	39	29	28	28	39	28	32	18	32	822	total

Prefecture of fatal and non-fatal accidents in chemical fiber in 1999-2021

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Prefecture
Hokkaido										1					1	1							2	5	Hokkaido
Aomori		2																					1	3	Aomori

Iwate	1																						1	Iwate		
Miyagi																									Miyagi	
Akita																									Akita	
Yamagata							1													1			2	Yamagata		
Fukushima						1	2			1			1	1			2	2					10	Fukushima		
Ibaraki		1					1		1		1					1							6	Ibaraki		
Tochigi	1	2	3		2		1		2		4				2	2	1	1	1			1	23	Tochigi		
Gunma		2	1				4		2				1	2					1				13	Gunma		
Saitama		3	1																		1		5	Saitama		
Chiba	1		1							1			1	1				2					7	Chiba		
Tokyo	3	2																					5	Tokyo		
Kanagawa	1	3					3	1															8	Kanagawa		
Niigata																	1						1	Niigata		
Toyama	1	2	1		3		3		7	3		2	2	2	2	1	1	3	1			1	35	Toyama		
Ishikawa			1												1		1	2	1		1	1	8	Ishikawa		
Fukui		2	3				1	4	1	3	1	3	3	1	1	4	2	2	4	4	1		2	42	Fukui	
Yamanashi			1																				1	Yamanashi		
Nagano							1																1	Nagano		
Gifu	1	2	3				4	3	5	2	1	3		4	7	2	5	1	5	3	3	2	4	60	Gifu	
Shizuoka	1	2	2					1	2	2		1	1	1		1	1	1	2	2			1	21	Shizuoka	
Aichi	6	6	4		7		2	3	2	2	3	1	2	5	3		1	2	1		5	2	1	58	Aichi	
Mie	1	2	1		3						1										1			9	Mie	
Shiga		3	4		1		1	1	3	5				2	2	4	3		2	2		3		1	37	Shiga







caught in/between	1	1			2					1							1	1				7	in/between	
cut																								cut
injury to the sole of the foot																								injury to the sole of the foot
drown			1																				1	drown
contact to high/low-temperature																								contact to high/low-temperature
contact to harmful substance																								contact to harmful substance
electric shock																								electric shock
explosion																						1	1	explosion
burst																								burst
fire																								fire
traffic accident (public road)																								traffic accident (public road)
traffic accident (others)																								traffic accident (others)
reaction to motion/improper motion																								reaction to motion/improper motion
others																								others
unclassifiable			1																				1	unclassifiable



Causal (M) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Causal (M) agents
engine																									engine
power transmission mechanism																									power transmission mechanism
woodworking machine																									woodworking machine
construction machine																									construction machine
metal manufacturing machine																									metal manufacturing machine
general machine	1	1			1					1								1						5	general machine
mobile silviculture machine																									mobile silviculture machine
crane																									crane
conveying machine		1			1															1				3	conveying machine
vehicle																									vehicle
pressure vessel																									pressure vessel
chemical facilities																							1	1	chemical



no causal agent																									no causal agent	
unclassifiable			1																						1	unclassifiable
total	1	2	2	1	2					1								1		1		1		12	total	

Causal agents (small) of fatal accidents in chemical fiber in 1999-2021

Causal (S) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Causal (S) agents
engine																									engine
power transmission mechanism																									power transmission mechanism
circular sawing machine																									circular sawing machine
band sawing machine																									band sawing machine
wood planer machine																									wood planer machine
hollow chisel mortiser, wood borer																									hollow chisel mortiser, wood borer
chamfering machine, router, woodworking milling machine																									chamfering machine, router, woodworking milling machine











human power hauling equipment																							human power hauling equipment
human power machine																							human power machine
hand tool																							hand tool
ladder																							ladder
slinging tool																							slinging tool
other tools																							other tools
other equipment, facilities																							other equipment, facilities
scaffolding																							scaffolding
timbering																							timbering
stairs, landing stage																							stairs, landing stage
opening																							opening
roof, beam, haze, crossbeam, principal rafter																							roof, beam, haze, crossbeam, principal rafter
working platform, boot board																							working platform, boot board
passage																							passage
building, establishment			1																			1	building, establishment
other temporary buildings,																							other temporary buildings,





9 workers or less																									9 workers or less		
10-29										1																1	10-29
30-49																											30-49
50-99	1			1																	1					3	50-99
100-299		2	1		1														1				1			6	100-299
300 workers or more			1		1																					2	300 workers or more
total	1	2	2	1	2					1									1			1		1		12	total

Month of fatal accidents in chemical fiber in 1999-2021

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Month		
January			1		1															1					3	January	
February		1																								1	February
March			1																							1	March
April																											April
May																		1								1	May
June																											June
July		1																								1	July
August																											August
September	1																									1	September
October					1																			1		2	October
November				1							1															2	November







Saga																								Saga	
Nagasaki																									Nagasaki
Kumamoto																									Kumamoto
Oita																									Oita
Miyazaki																									Miyazaki
Kagoshima																									Kagoshima
Okinawa																									Okinawa
total	1	2	2	1	2					1							1		1		1		12	total	

Data sources: <https://anzeninfo.mhlw.go.jp/user/anzen/tok/anst00.htm> (MHLW, Japan)

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