

Industrial accidents in fire resisting products in Japan in 1999-2020

fire resisting products industry Code No.010904

Type of accidents in fire resisting products in 1999-2020

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
fall from height	5	6	2	5	5	9	2	10	2	3	2	3	2	4	4	4	1	4	5	3	5	2
falling to same level	3	5	7	7	3	4	7	3	2	4	4	3	2	2	4	3	2	6	7	3	2	3
crash	2	3	5	2	5	3	0	5	2	2	0	0	1	1	0	0	1	1	2	2	0	0
struck by flying or falling object	8	8	10	5	3	4	1	1	5	6	1	4	4	2	4	2	0	3	2	2	4	1
collapse	0	2	1	-	1	2	0	1	2	1	0	0	1	0	2	1	0	1	0	1	0	1
crashed by	4	4	1	1	1	-	2	0	1	1	2	4	0	0	2	0	1	1	1	2	1	0
caught in/between	23	23	18	14	18	11	20	10	13	14	9	10	8	11	9	14	8	6	11	7	5	7
cut	1	2	2	2	3	3	0	1	1	3	1	0	0	1	0	1	2	0	0	0	0	1
injury to the sole of the foot	0	1	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
drown	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
contact to high/low-temperature	1	3	0	2	0	1	1	1	2	2	0	1	1	0	0	0	1	0	0	1	1	1
contact to harmful substance	0	0	0	-	0	-	0	0	0	2	1	0	0	1	0	0	0	0	0	0	1	0
electric shock	1	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
explosion	0	2	0	-	0	-	0	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0
burst	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
fire	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
traffic accident (public road)	0	0	2	8	0	-	0	0	1	0	0	0	0	0	0	1	0	1	0	0	1	0
traffic accident (others)	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
reaction to motion/improper motion	3	3	3	1	2	1	0	6	4	2	1	1	3	4	2	6	3	2	1	4	6	0
others	0	0	0	-	0	-	1	0	0	0	0	0	0	0	1	2	0	1	0	0	3	2

unclassifiable	0	0	0	-	0	-	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0
total	51	62	51	47	41	38	34	40	36	40	21	27	22	26	28	34	19	27	29	25	29	18

Causal agents (middle) of industrial accidents in fire resisting products in 1999-2020

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
engine	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
power transmission mechanism	3	2	1	-	0	2	1	0	0	1	0	0	1	0	1	2	1	1	2	1	0	0
woodworking machine	2	0	0	-	1	1	0	0	2	0	0	0	0	0	0	0	1	0	1	0	0	1
construction machine	0	1	0	-	0	-	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
metal manufacturing machine	1	3	3	-	1	1	2	2	2	3	1	1	1	2	0	0	1	0	2	1	0	1
general machine	13	12	7	7	15	9	10	6	5	11	4	2	2	3	8	5	1	0	4	5	3	4
mobile silviculture machine																	0	0	0	0	0	0
crane	2	0	3	1	0	-	2	1	1	0	1	3	0	2	1	0	0	0	1	1	1	0
conveying machine	9	18	9	14	9	4	7	4	6	3	4	6	3	5	5	8	6	5	3	3	1	1
vehicle	0	0	3	8	2	-	0	1	0	0	0	0	0	0	1	1	0	1	0	0	1	0
pressure vessel	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
chemical facilities	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
welding equipment	0	1	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
kiln, caldron	0	2	0	-	0	-	0	2	0	0	3	0	0	0	0	2	0	2	0	0	0	0
electric equipment	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
human power machine, tools	1	0	1	3	4	3	0	0	0	4	0	1	0	2	0	0	1	0	0	0	2	1
tools	1	6	2	2	2	3	1	3	5	5	0	1	1	1	3	3	0	2	4	3	6	1
other equipments, facilities	3	0	1	-	1	-	0	0	1	3	0	2	3	0	1	1	0	0	0	1	1	0
temporary buildings,	2	6	8	6	5	7	5	8	3	3	3	6	3	5	3	5	4	10	9	4	3	3







equipment																						
arc welding equipment			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other welding equipment			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
kiln, caldron			0	0	0	0	0	0	3	0	0	0	0	2	0	1	0	0	0	0	0	
industrial dryer			0	0	0	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	
other kiln, caldron			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
transmission			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
electric power facilities			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
other electrical equipment			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
human power cranes			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
human power hauling equipment			1	1	0	0	0	2	0	1	0	2	0	0	0	0	0	0	1	1		
human power machine			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
hand tool			0	3	0	0	0	2	0	0	0	0	0	0	1	0	0	0	1	0		
ladder			0	0	1	3	2	2	0	0	0	0	1	1	0	0	1	0	3	0		
slinging tool			0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	0		
other tools			2	1	0	0	3	3	0	0	0	1	2	2	0	2	3	3	2	1		
other equipment, facilities			1	1	0	0	1	3	0	2	3	0	1	1	0	0	0	1	1	0		
scaffolding			0	1	1	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0		
timbering			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
stairs, landing stage			0	0	0	2	1	1	1	2	0	1	0	0	1	2	1	1	0	1		
opening			0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0		
roof, beam, haze, crossbeam, principal rafter			0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0		
working platform, boot board			1	1	1	1	0	0	0	1	0	0	0	1	0	0	3	0	0	0		
passage			4	1	3	2	2	1	1	1	3	1	2	1	2	5	2	1	1	0		
building, establishment			3	0	0	0	0	1	0	2	0	2	1	0	1	2	2	0	1	2		



19 years old or less	1	2	1	1	1	2	0	0	0	2	0	0	1	0	1	1	0	1	0	0	0	0
20-29	9	9	5	7	3	6	5	3	5	4	4	3	4	6	4	3	4	4	4	3	4	2
30-39	8	11	9	8	9	7	6	17	9	8	7	5	3	4	7	8	5	5	5	3	7	5
40-49	9	10	11	9	8	5	7	2	5	10	2	2	5	5	4	9	2	6	8	5	7	2
50-59	12	25	22	16	13	7	9	17	10	10	5	10	4	4	5	4	6	4	3	10	4	5
60 years old or more	12	5	3	6	7	11	7	1	7	6	3	7	5	7	7	9	2	7	9	4	7	4
total	51	62	51	47	41	38	34	40	36	40	21	27	22	26	28	34	19	27	29	25	29	18

Workers' number of workplace of industrial accidents in fire resisting products in 1999-2020

Workers scale	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
9 workers or less	8	12	5	2	9	5	3	1	8	7	2	3	1	2	2	1	0	2	6	1	4	2
10-29	14	17	15	21	9	14	10	9	9	7	9	14	9	7	10	13	4	8	5	13	9	3
30-49	10	9	12	10	4	7	6	9	6	8	1	4	4	4	8	7	4	2	4	2	2	5
50-99	12	8	9	4	10	7	8	11	6	6	3	3	3	7	1	6	4	7	6	6	5	2
100-299	4	9	7	6	3	4	5	8	3	8	1	2	3	3	5	6	4	6	6	3	7	5
300 workers or more	3	7	3	4	6	1	2	2	4	4	5	1	2	3	2	1	3	2	2	0	2	1
total	51	62	51	47	41	38	34	40	36	40	21	27	22	26	28	34	19	27	29	25	29	18

Month of industrial accidents in fire resisting products in 1999-2020

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
January	7	7	7	3	1	2	2	7	2	2	2	2	1	3	1	3	2	2	2	3	1	0
February	1	6	5	5	5	1	3	3	2	5	1	3	1	4	1	3	3	2	1	3	6	2
March	6	6	5	6	6	6	5	3	8	7	2	0	3	3	1	4	0	1	2	0	4	1
April	9	2	1	5	1	3	4	3	1	3	1	1	2	1	3	3	2	3	4	1	3	2
May	4	2	4	4	4	3	1	2	1	2	2	2	1	0	0	1	1	1	2	1	1	3
June	3	11	5	3	1	4	2	3	2	2	1	3	1	1	2	2	3	5	5	1	1	1
July	6	5	3	12	4	2	2	3	2	3	0	4	3	5	1	7	1	3	1	7	5	0
August	4	9	5	3	5	1	4	2	3	1	0	3	3	1	5	4	1	1	2	2	0	2
September	1	6	2	-	2	4	2	4	6	2	1	2	3	0	5	3	1	2	2	2	3	0
October	7	2	7	2	7	5	2	5	3	3	9	1	0	3	4	2	1	2	5	0	2	0
November	1	1	4	3	3	3	3	2	4	5	1	3	3	4	4	0	2	2	2	3	3	3
December	2	5	3	1	2	4	4	3	2	5	1	3	1	1	1	2	2	3	1	2	0	4









construction machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
metal manufacturing machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
general machine	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
mobile silviculture machine																0	0	0	0	0	0	0
crane	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
conveying machine	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
vehicle	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
pressure vessel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
chemical facilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
welding equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
kiln, caldron	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
electric equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
human power machine, tools	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
tools	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other equipments, facilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
temporary buildings, establishments	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
hazards, harmful substances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
materials	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
load	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
natural environment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other causal agent	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
no causal agent	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
unclassifiable	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total	1	1	0	1	2	0	1	0	2	0	0	0	0	0	0	2	0	1	0	0	0	0













10-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
30-49	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
50-99	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100-299	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0
300 workers or more	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
total	1	1	0	1	2	0	1	0	2	0	0	0	0	0	0	2	0	1	0	0	0	0

Month of fatal accidents in fire resisting products in 1999-2020

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
January	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
February	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
March	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
April	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
June	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
July	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
August	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
September	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
October	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
November	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
December	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0
total	1	1	0	1	2	0	1	0	2	0	0	0	0	0	0	2	0	1	0	0	0	0

Prefecture of fatal accidents in fire resisting products in 1999-2020

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Hokkaido	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aomori	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iwate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Miyagi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Akita	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yamagata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fukushima	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Ibaraki	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0



Oita	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Miyazaki	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kagoshima	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Okinawa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total	1	1	0	1	2	0	1	0	2	0	0	0	0	0	0	2	0	1	0	0	0	0

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

Return to [https://www.jisha.or.jp/english/statistics/2020e\\_industry.html](https://www.jisha.or.jp/english/statistics/2020e_industry.html)