

SOUTH AMERICA

YKK DO BRASIL LTDA.

Country: BRAZIL
 Location: Sorocaba, São Paulo
 Business area(s): Manufacture of fasteners, S&B and T&P
 Number of employees: 487
 Land area: 247,100 m²
 Total built area: 62,400 m²
 ISO 14001 certification date: Mar. 27, 2002

< 2006 fiscal year environmental impact data >

Amount of electric power used	14,064,000 kWh
Amount of fossil fuel used	53,881 GJ
Amount of CO ₂ emitted	8,078 t
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Total amount of waste products emitted	629.2 t
Amount of recycled material	188.4 t
Recycling rate	29.9%
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Amount of copy paper used	3.9 t
Amount of water used	328,400 m ³

Water discharge standards	Unit	Legal standards	State standards	Voluntary management standards	Measured values
BOD	mg/l	NE	NE	60	35.5
Oil	mg/l	50	100	50	2.3
pH	-	5.0-9.0	5.0-9.0	5.0-9.0	7.4
Cadmium (Cd)	mg/l	0.2	0.2	0.20	0.025
Cyanide (CN)	mg/l	0.2	0.2	0.03	0.013
Hexavalent chromium (Cr VI)	mg/l	NE	0.1	0.1	0.007
Copper (Cu)	mg/l	1	1	1	0.5
Lead (Pb)	mg/l	0.5	0.5	0.5	<0.5
Nickel (Ni)	mg/l	2	2	2	0.35
Zinc (Zn)	mg/l	5	5	5	0.10
Selenium (Se)	mg/l	0.3	0.02	0.02	0.01
Tin (Sn)	mg/l	4	4	4	2.0
Water discharge destination	River				

● Leaks, discharge accidents, legal violations, etc.

None

City wastewater processing standards changed in June 2006, and restrictions on BOD values were eliminated, but YKK Do Brasil Ltda. will continue to use the former standard of 60mg/l as a criterion.

● Topics

- We switched to the use of recycled oil as lubricating oil for the mold, machining and driving parts of fastener manufacturing machinery.
- The community around the plant has many impoverished residences and is not very safe, so we planted trees, improved sidewalks and installed lighting to create places where local residents can walk, jog and otherwise have free space.
- We held environmental seminars for kindergarteners in the city with 80 students participating at two locations.

SOUTH AMERICA

YKK ARGENTINA S.A.

Country: ARGENTINA
 Location: Pilar
 Business area(s): Fastener manufacture
 Number of employees: 81
 Land area: 39,500 m²
 Total built area: 7,700 m²
 ISO 14001 certification date: Dec. 4, 2004

< 2006 fiscal year environmental impact data >

Amount of electric power used	1,399,000 kWh
Amount of fossil fuel used	10,489 GJ
Amount of CO ₂ emitted	1,046 t
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Total amount of waste products emitted	81.6 t
Amount of recycled material	35.8 t
Recycling rate	43.9%
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Amount of copy paper used	1.3 t
Amount of water used	46,900 m ³

Water discharge standards	Unit	Legal standards	Applicable standards	Measured values
BOD	mg/l	50	50	31.7
COD	mg/l	250	250	141
SS	mg/l	1	1	
Oil	mg/l	30	30	7.0
pH	-	6.5-10	6.5-10	7.15
Cadmium (Cd)	mg/l	0.1	0.1	0.01
Cyanide (CN)	mg/l	0.1	0.1	0.01
Hexavalent chromium (Cr VI)	mg/l	0.2	0.2	0.03
Nitrogen (N)	mg/l	35	35	5.9
Phosphorous (P)	mg/l	1	1	2.29
Copper (Cu)	mg/l	1	1	0.06
Lead (Pb)	mg/l	1	1	0.02
Nickel (Ni)	mg/l	2	2	0.04
Zinc (Zn)	mg/l	2	2	0.11
Selenium (Se)	mg/l	0.1	0.1	0.01
Water discharge destination	River			

● Leaks, discharge accidents, legal violations, etc.

When the measured phosphorous (P) values in wastewater were excessive in June, we understood it as a result of increased production and the sampling method used, but we exceeded the standard value again in October, so we asked a consultant company to conduct inspections. They proposed separating ordinary use wastewater and plant wastewater, which had been mixed in previous samplings, and other reforms to eliminate problems with the sampling method, but this still did not achieve the expected results. Therefore, at present, rather than testing downstream, we are investigating methods to test emissions from manufacturing processes as they occur.

● Topics

We prepared for the unified certification of purposes and targets for ISO9001:2000 and ISO14001:2004.