

Permit Number: EPR/VP3635SY

Operator: Viscose Closure Limited

Facility: Cellulose Extrusion Plant

Form Number: Air1 / 06/01/14

Reporting of emissions to air for the period from 01.01.21 to 31.12.21

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
A1	Hydrogen sulphide	2 mg/m ³	1 hour period	0.31 mg/m ³	US EPA Method 11	06.10.21 10:35 – 11:35	± 0.03
A1	Carbon disulphide	105 mg/m ³	1 hour period	29.28 mg/m ³	BS EN 13649	06.10.21 10:00 – 12:01	± 5.93
A1	Ammonia	190 mg/m ³	1 hour period	98.7 mg/m ³	BS EN 14791	83.31 9:33 – 10:18	± 10.79
A2	Hydrogen sulphide	1mg/m ³	1 hour period	0.32 mg/m ³	US EPA Method 11	06.10.21 14:25 – 15:25	± 0.03
A2	Carbon disulphide	17 mg/m ³	1 hour period	14.81 mg/m ³	BS EN 13649	06.10.21 9:47 – 11:56	± 2.86
A2	Ammonia	10 mg/m ³	1 hour period	7.76 mg/m ³	BS EN 14791	06.10.21 13:31 – 14:15	± 1.01

[1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.

[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with Natural Resources Wales is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.

[4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

SignedR. Rodenburg.....
(Authorised to sign as representative of Operator)

Date...12.01.22.....

Note: -

Permit Number: EPR/VP3635SY

Operator: Viscose Closure Limited

Facility: Cellulose Extrusion Plant

Form Number: WaterUsage1 / 06/01/14

Reporting of other performance indicators for the period 01.01.21 to 31.12.21

Water Source	Usage (m ³ /year)	Specific Usage (m ³ /unit output)
Mains water		
TOTAL WATER USAGE	20667	59.7 cub meter / tonne of viscose converted

Operator's comments :

Please note that the site has only 1 flowmeter. This means that the above data is for the whole site however $\pm$ 98% of the total water usage is consumed by the permitted process.

SignedR. Rodenburg.....
(Authorised to sign as representative of Operator)

Date.....12.01.22.....

Permit Number: EPR/VP3635SY

Operator: Viscose Closure Limited

Facility: Cellulose Extrusion Plant

Form Number: Energy1 / 06/01/14

Reporting of other performance indicators for the period 01.01.21 to 31.12.21

Energy Source	Energy Usage		Specific Usage (MWh/unit output)
	Quantity	Primary Energy (MWh)	
Electricity *	457 MWh	686 MWh	1.98 MWh / tonne viscose converted
Gas	1841 MWh		5.32 MWh / tonnes viscose converted
TOTAL	MWh		

* Conversion factor for delivered electricity to primary energy = 1.501 (Dec 2019)

Operator's comments :

Please note that energy usage is for the whole site. Only one gas and electricity meter are on site.
Please also note that in February 2020 and August 2021 a new gas assembly and meter was installed by the National Grid. It appears now that the previous gas meter did not measure and record correctly.

SignedR. Rodenburg.....
(Authorised to sign as representative of Operator)

Date.....12.01.22.....

Permit Number: EPR/VP3635SY

Operator: Viscose Closure Limited

Facility: Cellulose Extrusion Plant

Form Number: Performance1 / 06/01/14

Reporting of other performance indicators for the period 01.01.21 to 31.12.21

Parameter	Units
Total raw material used (Amount of viscose consumed)	345.86 tonnes of viscose delivered
Annual production of cellulose rings	31.82 tonnes of cellulose present in rings
Waste produced:	
Spent caustic (hazardous waste)	328 tonnes
Wet cellulose (hazardous waste)	14.4 tonnes
Dry cellulose (non-hazardous waste)	26.8 tonnes

Operator's comments :

The average cellulose contents of viscose is 9.2% w/w.

Wastes reported are solely related to the manufacture of cellulose bands i.e. the permitted process

SignedR. Rodenburg.....
(Authorised to sign as representative of Operator)

Date.....12.01.22.....