

Permit Number: EPR/BR9685IX

Operator:

Dow Silicones UK Limited

Facility: Barry Silicon Based Manufacturing Installation

Form Number: BR9685IX/A1/09/02/2026

Reporting of emissions to air for the period from DD/MM/YYYY to DD/MM/YYYY

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[5]
A12, A33, A34, A40 ⁽¹⁰⁾ (16)	Chloromethane	60 000kg/year	Annual mass		US EPA Method 18		
A12, A33, A34, A40 ⁽¹⁰⁾ (16)	Chloromethane	1000kg/day	Annual daily max		US EPA Method 18		
A12, A33, A34, A40 ⁽¹⁰⁾ (16)	Chloromethane	250kg/hour	Annual hourly max		US EPA Method 18		
A33 ⁽¹⁶⁾	Methanol	60kg/hour	Annual hourly max		US EPA Method 18		
A34	Methanol	60kg/hour	Annual hourly max		US EPA Method 18		
A12 ⁽¹⁶⁾	Methane ^[6]	No limit applies			US EPA Method 18		
A12 ⁽¹⁶⁾	Non-methane hydrocarbons ^[6]	No limit applies			US EPA Method 18		
A40	Silanes ^[6]	No limit applies ⁽¹³⁾	Annual hourly max		Gas chromatography		
A40	Silanes ^[7]	No limit applies ⁽¹³⁾	Annual mass		Gas chromatography		
A41	Particulates ^[17]	10 mg/m ³	Hourly average		BS EN 13284		
A41	Carbon monoxide ^[17]	50mg/m ³	Hourly average		ISO 12039		
A41	Oxides of nitrogen as NO ₂ ^[17]	100mg/m ³	Hourly average		ISO 10849		
A41	Dioxins and furans ^[17, 18]	0.1ng/m ³			BS EN 1948		
A48	Oxides of nitrogen as NO ₂	No limit applies	Hourly average		ISO 10849		
A48	Carbon monoxide	No limit applies	Hourly average		ISO 12039		

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[5]
A50	Oxides of nitrogen as NO ₂	200mg/m ³	Hourly average		ISO 10849		
A50	Carbon monoxide	200mg/m ³	Hourly average		ISO 12039		
A85	Hydrogen chloride ^[8]	10mg/m ³			BS EN 1911:1998		
A26	Class B VOC's ^[9]	No limit applies	Annual average		BS EN 13649		
A60	Class B VOC's ^[9]	5,000 kg/yr ⁽¹¹⁾	Annual mass		BS EN 13649		
A68	Class B VOC's ^[9]	5,000 kg/yr ⁽¹¹⁾	Annual mass		BS EN 13649		
A26	Siloxanes ^[9]	An agreed limit ⁽¹²⁾	Annual average		Gas chromatography		
A65	Siloxanes ^[9]	An agreed limit ⁽¹²⁾	Annual average		Gas chromatography		
A68	Siloxanes ^[9]	An agreed limit ⁽¹²⁾	Annual average		Gas chromatography		
A126	Dust	No limit applies	Hourly average		BS EN 13284		
A127	Dust	No limit applies	Hourly average		BS EN 13284		
A128	Dust	No limit applies	Hourly average		BS EN 13284		
A129	Dust	No limit applies	Hourly average		BS EN 13284		
A130	Dust	2.5 mg/Nm ³	Hourly average		BS EN 13284		

[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 the Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, e.g. 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 accreditation status of the equipment and/or the monitoring organisation, as appropriate, for the methods used for both sampling and analysis.

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

[6] Maximum kg/h obtained during the reporting period.

[7] Total release during the reporting period.

[8] Reporting only required if phosphonitrile production during reporting year.

[9] Average of quarterly reported values in reporting year.

[10] Based on an agreed emission factor

[11] Emission limit agreed following completion of IP4

[12] Emission limit to be agreed following completion of IP14. This has been deferred for consideration with IP25. No limit was agreed.

Dow Silicones Notes:

(13) There is no routine monitoring frequency required for A40 apart from the requirements listed in Table 2.10.1 under 'other requirements' and a method for such testing has not yet been agreed with the Agency. Dow Silicones has agreed with the Agency to use previously agreed IPC emission factors for silane releases from A40 for PI reporting purposes, as described in IPC improvement item 8.21. Under Improvement item IP3 the Environment Agency agreed to remove the requirement for silane monitoring at A41 when the ERU is not available for periods greater than 6 hrs.

(14) This is no longer made in W307.

(16) No emissions from A12 and A33 as plants not running.

(17) A41 results are corrected for STP, ref 11% O2, dry

(18) Dioxins and furans result reported as NATO I-TEQ

Signed
(Authorised to sign as representative of Operator)

Date.....