

Permit Number: WP3931SD

Operator: Kennametal UK Ltd

Installation: Newport Ceramics

Form Number: Air1 / 06/08/2007

Reporting of emissions to air for the period from 01/01/2022 to 31/12/2022

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
A1 [Point A1 on site plan in Schedule 2]	Particulate matter	25mg/m ³	Spot sample	5.2	BS EN 13284:1	23/03/22 13:45-14:45	0.58
A1 [Point A1 on site plan in Schedule 2]	Ammonia	30mg/m ³	Spot sample	147.4	BS EN 14791	23/11/22 12:25-13:25	17.7
A1 [Point A1 on site plan in Schedule 2]	Total Cyanide	-	Spot sample	132.1	US EPA OTM 29	23/11/22 12:25-13:25	15.9
A1 [Point A1 on site plan in Schedule 2]	Oxides of nitrogen	100mg/m ³	Spot sample	43.6	BS EN 14792:2017	23/11/22 12:25-13:25	4.02
A1 [Point A1 on site plan in Schedule 2]	Sulphur dioxide	20mg/m ³	Spot sample	14.6	AM-PD CEN/TS 17021:2017	13/06/22 10:55-11:55	1.4
A1 [Point A1 on site plan in Schedule 2]	Carbon monoxide	200mg/m ³	Spot sample	82	BS EN 15058:2017	22/09/22 09:44-10:44	1.7
A2 [Point A2 on site plan in schedule 2]	Particulate matter	25mg/m ³	Spot sample	Emission point not in use	BS EN 13284:1	Emission point not in use	Emission point not in use
A3 [Point A3 on site plan in schedule 2]	Particulate matter	5mg/m ³	Spot sample	3.6	BS EN 13284:1	24/03/22 09:00-10:00	0.65
A6 [Point A6 on site plan in Schedule 2]	Particulate matter	25mg/m ³	Spot sample	152.2	BS EN 13284:1	14/06/22 11:02-12:02	4.7
A7 [Point A7 on site plan in schedule 2]	Particulate matter	5mg/m ³	Spot sample	3.7	BS EN 13284:1	24/03/22 10:15-11:15	0.48

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
A8 [Point A8 on site plan in schedule 2]	Particulate matter	25mg/m ³	Spot sample	3.4	BS EN 13284:1	23/03/22 10:00-11:00	0.61
A8 [Point A8 on site plan in schedule 2]	Ammonia	30mg/m ³	Spot sample	0.56	BS EN 14791	21/09/22 11:40-12:40	0.07
A8 [Point A8 on site plan in schedule 2]	Total Cyanide	-	Spot sample	0.09	US EPA OTM 29	23/11/22 11:00-12:00	0.02
A8 [Point A8 on site plan in schedule 2]	Oxides of nitrogen	100mg/m ³	Spot sample	5.2	BS EN 14792:2017	13/06/22 14:10-15:10	4.4
A8 [Point A8 on site plan in schedule 2]	Sulphur dioxide	20mg/m ³	Spot sample	14.9	AM-PD CEN/TS 17021:2017	13/06/22 14:10-15:10	1.4
A8 [Point A8 on site plan in schedule 2]	Carbon monoxide	100mg/m ³	Spot sample	82	BS EN 15058:2017	21/09/22 12:30-13:30	4.6

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

Signed Jawhan
(Authorised to sign as representative of Operator)

Date 25/1/23

Permit Number: WP3931SD Operator: Kennametal UK Ltd
 Installation: Newport Ceramics Form Number: Energy1

Reporting of Energy Usage for the year 2022

Energy Source	Energy Usage		Specific Usage (MW/unit output)
	Quantity	Primary Energy (MWh)	
Electricity *	7657 MWh	18376	32.62 MWh/tonne product
Natural Gas	0 tonnes	n/a	n/a
TOTAL	7657 MWh	18376 MWh	32.62 MWh/tonne product

* Conversion factor for delivered electricity to primary energy = 2.4

Operator's comments:

The specific energy usage has been calculated based on powder production and hot pressing. Although powder production and hot pressing are responsible for the majority of the electricity consumed on site, this is a slight over-estimate as some of the electricity used on site is used in the production of other products.

The specific energy usage is similar to last year. However, this figure will also be affected to some degree by differences in the quantities which different products are produced. Some products require more energy to produce than others.

Signed Jewhan
 (Authorised to sign as representative of Operator)

Date 25/1/23

Permit Number: WP3931SD Operator: Kennametal UK Ltd
Installation: Newport Ceramics Form Number: Performance1

Reporting of other performance indicators for the period 01/01/2022 to 31/12/2022

Parameter	Units
Water usage 2409/234.7	m3/tonne product 10.26
Energy usage 7657/234.7	MWh/tonne product 32.62
Effluent released 2168/234.7	M3/tonne product 9.23

Operator's comments :
Effluent released calculated as 90% of total incoming water (mains)

Signed Jawham
(Authorised to sign as representative of Operator)

Date 25/1/23

Permit Number: WP3931SD Operator: Kennametal Manufacturing UK Ltd
Installation: Newport Ceramics Form Number: WaterUsage1

Reporting of Water Usage for the year 2022

Water Source	Usage (m ³ /year)	Specific Usage (m ³ /unit output)
Mains water	2409 m ³	10.26 m ³ /tonne of product

Operator's comments :

Signed Jawhan
(authorised to sign as representative of Operator)

Date 25/1/23