

BP 3532 HX

Permit Number: WP~~20~~31SD Operator: Kennametal UK Ltd  
Installation: Newport Ceramics Form Number: Performance1

**Reporting of other performance indicators for the period 01/01/2019 to 31/12/2019**

Parameter	Units
Water usage 3693/208.07	m <sup>3</sup> /tonne product 17.74
Energy usage 7514/208.07	MWh/tonne product 36.11
Effluent released 3324/208.07	M <sup>3</sup> /tonne product 15.98

Operator's comments :

Effluent released calculated as 90% of total incoming water (mains)

Signed .....  
(Authorised to sign as representative of Operator)

Date: 29/1/20

BP 3532HX

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

### Reporting of Energy Usage for the year 2019

Energy Source	Energy Usage		Specific Usage (MWh/unit output)
	Quantity	Primary Energy (MWh)	
Electricity *	7514 MWh	18033	36.11 MWh/tonne product
Natural Gas	0 tonnes	n/a	n/a
TOTAL	7514 MWh	18033 MWh	36.11 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 lower than last year due to improvements in energy efficiency. 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 T. Whan  
(Authorised to sign as representative of Operator)

Date: 29/1/20

BP 3532 HX

Permit Number: WP393TSD Operator: Kennametal Manufacturing UK Ltd  
Installation: Newport Ceramics Form Number: WaterUsage1

### Reporting of Water Usage for the year 2019

Water Source	Usage (m <sup>3</sup> /year)	Specific Usage (m <sup>3</sup> /unit output)
Mains water	3693 m <sup>3</sup>	17.74 m <sup>3</sup> /tonne of product

Operator's comments :

Signed *Tashan* .....  
(authorised to sign as representative of Operator)

Date: 29/1/20