

## ATTACHMENT C.4

# OPERATING CONDITIONS AND QUALITY REQUIREMENTS AT INTERCONNECTION POINTS

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**1 - Operating Conditions and quality requirements at IZT and Zeebrugge**

	<b>Unit</b>	<b>Min.</b>	<b>Max.</b>
Gross Calorific Value	kWh/m <sup>3</sup> (n) (25°C, 0°C)	10.80	12.38
Wobbe Index	kWh/m <sup>3</sup> (n) (25°C, 0°C)	13.82	15.05
Pressure <sup>(1)</sup>	barg	55	80
Temperature	°C	2	38
Hydrocarbon dewpoint	°C from 0 to 69 barg		Minus 2
Water dewpoint	°C at 69 barg		Minus 8 <sup>(2)</sup>
Oxygen content (O <sub>2</sub> )	ppm by vol		1000
Carbon dioxide content (CO <sub>2</sub> )	Mole %		2.5
Hydrogen sulphide content (H <sub>2</sub> S) (inclusive of COS) (as S)	mg/m <sup>3</sup> (n) (as S)		5
Total sulphur at any time (as S)	mg/m <sup>3</sup> (n) (as S)		30
Mercaptans (as S)	mg/m <sup>3</sup> (n) (as S)		6

(1) Natural gas shall be made available in the entry direction at any pressure within this range as requested from time to time by Fluxys

(2) As long as the maximum water dewpoint applicable in the IUK system is -10°C at 69 barg, said value shall be applicable.

The Natural Gas delivered may not contain any other elements or impurities (such as, but not limited to methanol, condensates and gas odorants) to the extent that the Natural Gas delivered cannot be transported, stored or marketed in Belgium without incurring additional cost for quality adjustment.

The Natural Gas delivered may not contain any added odorants.

To the extent that in future all gas flows through and into Belgium, which could potentially be impacted by the prospective Shipper's gas delivery at the border, may accept wider quality specifications, the table above shall be adjusted accordingly subject to compliance with the ranges and values of the EASEE-Gas Common Business Practices or any other applicable European standard as in effect at that time at a European level.

**2 - Operating Conditions and quality requirements at ZPT**

	<b>Unit</b>	<b>Min.</b>	<b>Max.</b>
Gross Calorific Value	kWh/m <sup>3</sup> (n) (25°C, 0°C)	11.17	12.77
Wobbe Index	kWh/m <sup>3</sup> (n) (25°C, 0°C)	14.17	15.47 <sup>(1)</sup>
Pressure <sup>(2)</sup>	barg	45	80
Temperature	°C	2	30(Oct-May) 32 (June- Sept)
Hydrocarbon dewpoint	°C from 0 to 69 barg		Minus 2
Water dewpoint	°C at 69 barg		Minus 10
Oxygen content (O <sub>2</sub> )	ppm by vol		1000
Carbon dioxide content (CO <sub>2</sub> )	Mole %		2.5
Hydrogen sulphide content (H <sub>2</sub> S) (inclusive of COS) (as S)	mg/m <sup>3</sup> (n) (as S)		5
Total sulphur at any time (as S)	mg/m <sup>3</sup> (n) (as S)		30
Mercaptans (as S)	mg/m <sup>3</sup> (n) (as S)		6

(1) For redeliveries of Natural Gas at IZT/Zeebrugge, we refer to [ACT - Attachment C1.art.3.9 of Attachment A to the Access Code for Transmission](#)

(2) Natural gas shall be made available at any pressure within this range as requested from time to time by Fluxys

The Natural Gas delivered may not contain any other elements or impurities (such as, but not limited to methanol, condensates and gas odorants) to the extent that the Natural Gas delivered cannot be transported, stored or marketed in Belgium without incurring additional cost for quality adjustment.

The Natural Gas delivered may not contain any added odorants.

To the extent that in future all gas flows through and into Belgium, which could potentially be impacted by the prospective Shipper's gas delivery at the border, may accept wider quality specifications, the table above shall be adjusted accordingly subject to compliance with the ranges and values of the EASEE-Gas Common Business Practices or any other applicable European standard as in effect at that time at a European level.

**3 - Operating Conditions and quality requirements at Eynatten 1 (GasPool)**

	<b>Unit</b>	<b>Min.</b>	<b>Max.</b>
Gross Calorific Value	kWh/m <sup>3</sup> (n) (25°C, 0°C)	10.80	12.77
Wobbe Index	kWh/m <sup>3</sup> (n) (25°C, 0°C)	13.82	15.47 <sup>(1)</sup>
Pressure <sup>(2)</sup>	barg	49 exit 55 entry	80
Temperature	°C	2	38
Hydrocarbon dewpoint	°C from 0 to 69 barg		Minus 2
Water dewpoint <sup>(3)</sup>	°C at 69 barg		Minus 8
Oxygen content (O <sub>2</sub> )	ppm by vol		1000
Carbon dioxide content (CO <sub>2</sub> )	Mole %		2.5
Hydrogen sulphide content (H <sub>2</sub> S) (inclusive of COS) (as S)	mg/m <sup>3</sup> (n) (as S)		5
Total sulphur at any time (as S)	mg/m <sup>3</sup> (n) (as S)		30
Mercaptans (as S)	mg/m <sup>3</sup> (n) (as S)		6

(1) For redeliveries of Natural Gas at IZT/Zeebrugge, we refer to [ACT – Attachment C1](#).

(2) Natural gas shall be made available in the entry direction at any pressure within this range as requested from time to time by Fluxys

(3) As long as the maximum water dewpoint applicable in the IUK system is -10°C at 69 barg, said value shall be applicable

The Natural Gas delivered may not contain any other elements or impurities (such as, but not limited to methanol, condensates and gas odorants) to the extent that the Natural Gas delivered cannot be transported, stored or marketed in Belgium without incurring additional cost for quality adjustment.

The Natural Gas delivered may not contain any added odorants.

To the extent that in future all gas flows through and into Belgium, which could potentially be impacted by the prospective Shipper's gas delivery at the border, may accept wider quality specifications, the table above shall be adjusted accordingly subject to compliance with the ranges and values of the EASEE-Gas Common Business Practices or any other applicable European standard as in effect at that time at a European level.

**4 - Operating Conditions and quality requirements at Eynatten 2 (NCG):**

	<b>Unit</b>	<b>Min.</b>	<b>Max.</b>
Gross Calorific Value	kWh/m <sup>3</sup> (n) (25°C, 0°C)	10.80	12.77
Wobbe Index	kWh/m <sup>3</sup> (n) (25°C, 0°C)	13.82	15.47 <sup>(1)</sup>
Pressure <sup>(2)</sup>	barg	49 exit 55 entry	80
Temperature	°C	2	38
Hydrocarbon dewpoint	°C from 0 to 69 barg		Minus 2
Water dewpoint <sup>(3)</sup>	°C at 69 barg		Minus 8
Oxygen content (O <sub>2</sub> )	ppm by vol		1000
Carbon dioxide content (CO <sub>2</sub> )	Mole %		2.5
Hydrogen sulphide content (H <sub>2</sub> S) (inclusive of COS) (as S)	mg/m <sup>3</sup> (n) (as S)		5
Total sulphur at any time (as S)	mg/m <sup>3</sup> (n) (as S)		30
Mercaptans (as S)	mg/m <sup>3</sup> (n) (as S)		6

(1) For redeliveries of Natural Gas at IZT/Zeebrugge, we refer to [ACT - Attachment C1.art.3.9 of Attachment A to the Access Code for Transmission](#).

- (2) Natural gas shall be made available in the entry direction at any pressure within this range as requested from time to time by Fluxys
- (3) As long as the maximum water dewpoint applicable in the IUK system is -10°C at 69 barg, said value shall be applicable

The Natural Gas delivered may not contain any other elements or impurities (such as, but not limited to methanol, condensates and gas odorants) to the extent that the Natural Gas delivered cannot be transported, stored or marketed in Belgium without incurring additional cost for quality adjustment.

The Natural Gas delivered may not contain any added odorants.

To the extent that in future all gas flows through and into Belgium, which could potentially be impacted by the prospective Shipper's gas delivery at the border, may accept wider quality specifications, the table above shall be adjusted accordingly subject to compliance with the ranges and values of the EASEE-Gas Common Business Practices or any other applicable European standard as in effect at that time at a European level.

**5 – Operating Conditions and quality requirements at Blaregnies Troll**

	<b>Unit</b>	<b>Min.</b>	<b>Max.</b>
Gross Calorific Value	kWh/m <sup>3</sup> (n) (25°C, 0°C)	10.80 <sup>(1)</sup>	12.77
Wobbe Index	kWh/m <sup>3</sup> (n) (25°C, 0°C)	13.82 <sup>(2)</sup>	15.47 <sup>(3)</sup>
Pressure	barg	49	70
Temperature	°C	2	30 (Oct-May) 32 (June-Sept)
Hydrocarbon dewpoint	°C from 0 to 69 barg		Minus 2
Water dewpoint	°C at 69 barg		Minus 8
Oxygen content (O <sub>2</sub> )	ppm by vol		1000
Carbon dioxide content (CO <sub>2</sub> )	Mole %		2.5
Hydrogen sulphide content (H <sub>2</sub> S) (inclusive of COS) (as S)	mg/m <sup>3</sup> (n) (as S)		5
Total sulphur at any time (as S)	mg/m <sup>3</sup> (n) (as S)		30
Mercaptans (as S)	mg/m <sup>3</sup> (n) (as S)		6

(1) — As long as the minimum Gross Calorific value applicable in the GRTgaz system is 10.67 kWh/m<sup>3</sup>(n), said value shall be applicable

(1) — As long as the minimum Wobbe Index value applicable in the GRTgaz system is 13.60 kWh/m<sup>3</sup>(n), the value of 13.65 kWh/m<sup>3</sup>(n) shall be applicable

(2) — For redeliveries of Natural Gas at IZT/Zeebrugge, we refer to art.3.9 of Attachment A to the Access Code for Transmission. As long as the maximum Wobbe Index value applicable in the GRTgaz system is 15.66 kWh/m<sup>3</sup>(n), said value shall be applicable

The Natural Gas delivered may not contain any other elements or impurities (such as, but not limited to methanol, condensates and gas odorants) to the extent that the Natural Gas delivered cannot be transported, stored or marketed in Belgium without incurring additional cost for quality adjustment.

The Natural Gas delivered may not contain any added odorants.

To the extent that in future all gas flows through and into Belgium, which could potentially be impacted by the prospective Shipper's gas delivery at the border, may accept wider quality specifications, the table above shall be adjusted accordingly subject to compliance with the ranges and values of the EASEE Gas Common Business Practices or any other applicable European standard as in effect at that time at a European level.

**5 - Operating Conditions and quality requirements at Virtualys**

	<u>Unit</u>	<u>Min.</u>	<u>Max.</u>
<u>Gross Calorific Value</u>	<u>kWh/m<sup>3</sup> (n) (25°C, 0°C)</u>	<u>10.80</u>	<u>12.77</u>
<u>Wobbe Index</u>	<u>kWh/m<sup>3</sup> (n) (25°C, 0°C)</u>	<u>13.82</u>	<u>15.47<sup>(1)</sup></u>
<u>Temperature</u>	<u>°C</u>	<u>2</u>	<u>38</u>
<u>Hydrocarbon dewpoint</u>	<u>°C from 0 to 69 barg</u>		<u>Minus 2</u>
<u>Water dewpoint</u>	<u>°C at 69 barg</u>		<u>Minus 8</u>
<u>Oxygen content (O<sub>2</sub>)</u>	<u>ppm by vol</u>		<u>1000</u>
<u>Carbon dioxide content (CO<sub>2</sub>)</u>	<u>Mole %</u>		<u>2.5</u>
<u>Hydrogen sulphide content (H<sub>2</sub>S) (inclusive of COS) (as S)</u>	<u>mg/m<sup>3</sup>(n) (as S)</u>		<u>5</u>
<u>Total sulphur at any time (as S)</u>	<u>mg/m<sup>3</sup>(n) (as S)</u>		<u>30</u>
<u>Mercaptans (as S)</u>	<u>mg/m<sup>3</sup>(n) (as S)</u>		<u>6</u>

(1) For redeliveries of Natural Gas at IZT/Zeebrugge, we refer to ACT - Attachment C1.

The Natural Gas delivered may not contain any other elements or impurities (such as, but not limited to methanol, condensates and gas odorants) to the extent that the Natural Gas delivered cannot be transported, stored or marketed in Belgium without incurring additional cost for quality adjustment.

The Natural Gas delivered may not contain any added odorants.

To the extent that in future all gas flows through and into Belgium, which could potentially be impacted by the prospective Shipper's gas delivery at the border, may accept wider quality specifications, the table above shall be adjusted accordingly subject to compliance with the ranges and values of the EASEE-Gas Common Business Practices or any other applicable European standard as in effect at that time at a European level.

**6 – Operating Conditions and quality requirements at Blaregnies Segeo**

	<b>Unit</b>	<b>Min.</b>	<b>Max.</b>
Gross Calorific Value	kWh/m <sup>3</sup> (n) (25°C, 0°C)	10.80 <sup>(4)</sup>	12.77
Wobbe Index	kWh/m <sup>3</sup> (n) (25°C, 0°C)	13.82 <sup>(2)</sup>	15.47 <sup>(3)</sup>
Pressure	barg	49	66.2
Temperature	°C	2	38
Hydrocarbon dewpoint	°C from 0 to 69 barg		Minus 2
Water dewpoint	°C at 69 barg		Minus 8
Oxygen content (O <sub>2</sub> )	ppm by vol		1000
Carbon dioxide content (CO <sub>2</sub> )	Mole-%		2.5
Hydrogen sulphide content (H <sub>2</sub> S) (inclusive of COS) (as S)	mg/m <sup>3</sup> (n) (as S)		5
Total sulphur at any time (as S)	mg/m <sup>3</sup> (n) (as S)		30
Mercaptans (as S)	mg/m <sup>3</sup> (n) (as S)		6

(1) — As long as the minimum Gross Calorific value applicable in the GRTgaz system is 10.67 kWh/m<sup>3</sup> (n), said value shall be applicable

(2) — As long as the minimum Wobbe Index value applicable in the GRTgaz system is 13.65 kWh/m<sup>3</sup>(n), said value shall be applicable

(3) — For redeliveries of Natural Gas at IZT/Zeebrugge, we refer to art.3.9 of Attachment A to the Access Code for Transmission. As long as the maximum Wobbe Index value applicable in the GRTgaz system is 15.66 kWh/m<sup>3</sup>(n), said value shall be applicable

The Natural Gas delivered may not contain any other elements or impurities (such as, but not limited to methanol, condensates and gas odorants) to the extent that the Natural Gas delivered cannot be transported, stored or marketed in Belgium without incurring additional cost for quality adjustment.

The Natural Gas delivered may not contain any added odorants.

To the extent that in future all gas flows through and into Belgium, which could potentially be impacted by the prospective Shipper's gas delivery at the border, may accept wider quality specifications, the table above shall be adjusted accordingly subject to compliance with the ranges and values of the EASEE Gas Common Business Practices or any other applicable European standard as in effect at that time at a European level.



**6 - Operating Conditions and quality requirements at GDLux**

	<b>Unit</b>	<b>Min.</b>	<b>Max.</b>
Gross Calorific Value	kWh/m <sup>3</sup> (n) (25°C, 0°C)	10.80	12.77
Wobbe Index	kWh/m <sup>3</sup> (n) (25°C, 0°C)	13.82	15.47 <sup>(1)</sup>
Pressure	barg	27	66.2
Temperature	°C	2	38
Hydrocarbon dewpoint	°C from 0 to 69 barg		Minus 2
Water dewpoint	°C at 69 barg		Minus 10
Oxygen content (O <sub>2</sub> )	ppm by vol		1000
Carbon dioxide content (CO <sub>2</sub> )	Mole %		2.5
Hydrogen sulphide content (H <sub>2</sub> S) (inclusive of COS) (as S)	mg/m <sup>3</sup> (n) (as S)		5
Total sulphur at any time (as S)	mg/m <sup>3</sup> (n) (as S)		30
Mercaptans (as S)	mg/m <sup>3</sup> (n) (as S)		6

(1) For redeliveries of Natural Gas at IZT/Zeebrugge, we refer to [ACT - Attachment C1. art.3.9 of Attachment A to the Access Code for Transmission.](#)

The Natural Gas delivered may not contain any other elements or impurities (such as, but not limited to methanol, condensates and gas odorants) to the extent that the Natural Gas delivered cannot be transported, stored or marketed in Belgium without incurring additional cost for quality adjustment.

The Natural Gas delivered may not contain any added odorants.

To the extent that in future all gas flows through and into Belgium, which could potentially be impacted by the prospective Shipper's gas delivery at the border, may accept wider quality specifications, the table above shall be adjusted accordingly subject to compliance with the ranges and values of the EASEE-Gas Common Business Practices or any other applicable European standard as in effect at that time at a European level.

**7 - Operating Conditions and quality requirements at s' Gravenvoeren**

	<b>Unit</b>	<b>Min.</b>	<b>Max.</b>
Gross Calorific Value	kWh/m <sup>3</sup> (n) (25°C, 0°C)	10.80	12.77
Wobbe Index	kWh/m <sup>3</sup> (n) (25°C, 0°C)	13.82	15.47 <sup>(1)</sup>
Pressure	barg	49	66.2
Temperature	°C	2	38
Hydrocarbon dewpoint	°C from 0 to 69 barg		Minus 2
Water dewpoint	°C at 69 barg		Minus 8
Oxygen content (O <sub>2</sub> )	ppm by vol		1000
Carbon dioxide content (CO <sub>2</sub> )	Mole %		2.5
Hydrogen sulphide content (H <sub>2</sub> S) (inclusive of COS) (as S)	mg/m <sup>3</sup> (n) (as S)		5
Total sulphur at any time (as S)	mg/m <sup>3</sup> (n) (as S)		30
Mercaptans (as S)	mg/m <sup>3</sup> (n) (as S)		6

(1) For redeliveries of Natural Gas at IZT/Zeebrugge, we refer to [ACT - Attachment C1.art.3.9 of Attachment A to the Access Code for Transmission](#).

The Natural Gas delivered may not contain any other elements or impurities (such as, but not limited to methanol, condensates and gas odorants) to the extent that the Natural Gas delivered cannot be transported, stored or marketed in Belgium without incurring additional cost for quality adjustment.

The Natural Gas delivered may not contain any added odorants.

To the extent that in future all gas flows through and into Belgium, which could potentially be impacted by the prospective Shipper's gas delivery at the border, may accept wider quality specifications, the table above shall be adjusted accordingly subject to compliance with the ranges and values of the EASEE-Gas Common Business Practices or any other applicable European standard as in effect at that time at a European level.

**8 - Operating Conditions and quality requirements at Zelzate 1 (GTS)**

	<b>Unit</b>	<b>Min.</b>	<b>Max.</b>
Gross Calorific Value	kWh/m <sup>3</sup> (n) (25°C, 0°C)	10.80	12.77
Wobbe Index	kWh/m <sup>3</sup> (n) (25°C, 0°C)	13.82	15.47 <sup>(1)</sup>
Pressure	barg	59	80
Temperature	°C	2	38
Hydrocarbon dewpoint	°C from 0 to 69 barg		Minus 2
Water dewpoint <sup>(2)</sup>	°C at 69 barg		Minus 8
Oxygen content (O <sub>2</sub> )	ppm by vol		1000
Carbon dioxide content (CO <sub>2</sub> )	Mole %		2.5
Hydrogen sulphide content (H <sub>2</sub> S) (inclusive of COS) (as S)	mg/m <sup>3</sup> (n) (as S)		5
Total sulphur at any time (as S)	mg/m <sup>3</sup> (n) (as S)		30
Mercaptans (as S)	mg/m <sup>3</sup> (n)		6

(1) For redeliveries of Natural Gas at IZT/Zeebrugge, we refer to [ACT - Attachment C1.art.3.9 of Attachment A to the Access Code for Transmission](#).

(2) As long as the maximum water dewpoint applicable in the IUK system is -10°C at 69 barg, said value shall be applicable

The Natural Gas redelivered may not contain other elements and impurities (such as but not limited to methanol, condensates, gas odorants) to the extent that the Natural Gas redelivered cannot be transported, stored and marketed in Belgium without incurring additional cost for quality adjustment

The Natural Gas delivered may not contain any added odorants.

To the extent that in future all gas flows through and into Belgium, which could potentially be impacted by the prospective Shipper's gas delivery at the border, may accept wider quality specifications, the table above shall be adjusted accordingly subject to compliance with the ranges and values of the EASEE-Gas Common Business Practices or any other applicable European standard as in effect at that time at a European level.

**9 - Operating Conditions and quality requirements at Zelzate 2 (Zebra)**

	<b>Unit</b>	<b>Min.</b>	<b>Max.</b>
Gross Calorific Value	kWh/m <sup>3</sup> (n) (25C, 0°0)	10.80	12.77
Wobbe Index	kWh/m <sup>3</sup> (n) (25C, 0°C)	13.82 <sup>(1)</sup>	15.47 <sup>(2)</sup>
Pressure	barg	55	80
Temperature	C	2	38
Hydrocarbon dewpoint	°C from 0 to 69 barg		Minus 2
Water dewpoint	°C at 69 barg		Minus 8
Oxygen content (O <sub>2</sub> )	ppm by vol		1000
Carbon dioxide content (CO <sub>2</sub> )	Mole %		2.5
Hydrogen sulphide content (H <sub>2</sub> S) (inclusive of COS) (as S)	mg/m <sup>3</sup> (n) (as S)		5
Total sulphur at any time (as S)	mg/m <sup>3</sup> (n) (as S)		30
Mercaptans (as S)	mg/m <sup>3</sup> (n)		6

(1) As long as the minimum Wobbe Index value applicable in the Zebra system is 13.67 kWh/m<sup>3</sup>(n), said value shall be applicable

(2) For redeliveries of Natural Gas at IZT/Zeebrugge, we refer to [ACT - Attachment C1.art.3.9 of Attachment A to the Access Code for Transmission](#).

The Natural Gas redelivered may not contain other elements and impurities (such as but not limited to methanol, condensates, gas odorants) to the extent that the Natural Gas redelivered cannot be transported, stored and marketed in Belgium without incurring additional cost for quality adjustment

The Natural Gas delivered may not contain any added odorants.

To the extent that in future all gas flows through and into Belgium, which could potentially be impacted by the prospective Shipper's gas delivery at the border, may accept wider quality specifications, the table above shall be adjusted accordingly subject to compliance with the ranges and values of the EASEE-Gas Common Business Practices or any other applicable European standard as in effect at that time at a European level.

**10 - Operating Conditions and quality requirements at Zandvliet H**

	<b>Unit</b>	<b>Min.</b>	<b>Max.</b>
Gross Calorific Value	kWh/m <sup>3</sup> (n) (25°C, 0°C)	10.80	12.77
Wobbe Index	kWh/m <sup>3</sup> (n) (25°C, 0°C)	13.82	15.47 <sup>(1)</sup>
Pressure	barg	55	80
Temperature	°C	2	38
Hydrocarbon dewpoint	°C from 0 to 69 barg		Minus 2
Water dewpoint	°C at 69 barg		Minus 8
Oxygen content (O <sub>2</sub> )	ppm by vol		1000
Carbon dioxide content (CO <sub>2</sub> )	Mole %		2.5
Hydrogen sulphide content (H <sub>2</sub> S) (inclusive of COS) (as S)	mg/m <sup>3</sup> (n) (as S)		5
Total sulphur at any time (as S)	mg/m <sup>3</sup> (n) (as S)		30
Mercaptans (as S)	mg/m <sup>3</sup> (n)		6

(1) For redeliveries of Natural Gas at IZT/Zeebrugge, we refer to [ACT - Attachment C1.art.3.9 of Attachment A to the Access Code for Transmission](#).

The Natural Gas redelivered may not contain other elements and impurities (such as but not limited to methanol, condensates, gas odorants) to the extent that the Natural Gas redelivered cannot be transported, stored and marketed in Belgium without incurring additional cost for quality adjustment

The Natural Gas delivered may not contain any added odorants.

To the extent that in future all gas flows through and into Belgium, which could potentially be impacted by the prospective Shipper's gas delivery at the border, may accept wider quality specifications, the table above shall be adjusted accordingly subject to compliance with the ranges and values of the EASEE-Gas Common Business Practices or any other applicable European standard as in effect at that time at a European level.

**11— Operating Conditions and quality requirements at Alveringem**

	<b>Unit</b>	<b>Min.</b>	<b>Max.</b>
Gross Calorific Value	kWh/m <sup>3</sup> (n) (25°C, 0°C)	11.17	12.77
Wobbe Index	kWh/m <sup>3</sup> (n) (25°C, 0°C)	14.17	15.47 <sup>(1)</sup>
Pressure	barg	55	84.5
Temperature	°C	2	38
Hydrocarbon dewpoint	°C from 0 to 69 barg		Minus 2
Water dewpoint	°C at 69 barg		Minus 10
Oxygen content (O <sub>2</sub> )	ppm by vol		1000
Carbon dioxide content (CO <sub>2</sub> )	Mole %		2.5
Hydrogen sulphide content (H <sub>2</sub> S) (inclusive of COS) (as S)	mg/m <sup>3</sup> (n) (as S)		5
Total sulphur at any time (as S)	mg/m <sup>3</sup> (n) (as S)		30
Mercaptans (as S)	mg/m <sup>3</sup> (n) (as S)		6

(1) — For redeliveries of Natural Gas at IZT/Zeebrugge, we refer to art.3.9 of Attachment A to the Access Code for Transmission.

The Natural Gas delivered may not contain any other elements or impurities (such as, but not limited to methanol, condensates and gas odorants) to the extent that the Natural Gas delivered cannot be transported, stored or marketed in Belgium without incurring additional cost for quality adjustment.

The Natural Gas delivered may not contain any added odorants.

To the extent that in future all gas flows through and into Belgium, which could potentially be impacted by the prospective Shipper's gas delivery at the border, may accept wider quality specifications, the table above shall be adjusted accordingly subject to compliance with the ranges and values of the EASEE Gas Common Business Practices or any other applicable European standard as in effect at that time at a European level.

**4211 Operating Conditions and quality requirements at Hilvarenbeek L**

	<b>Unit</b>	<b>Min.</b>	<b>Max.</b>
Gross Calorific Value	kWh/m <sup>3</sup> (n) (25°C, 0°C)	9.53	10.74
Wobbe Index	kWh/m <sup>3</sup> (n) (25°C, 0°C)	12.20 <sup>(1)</sup>	13.02
Pressure	barg	49	66.2
Temperature	°C	2	38
Hydrocarbon dewpoint	°C from 0 to 69 barg		Minus 2
Water dewpoint	°C at 69 barg		Minus 8
Oxygen content (O <sub>2</sub> )	ppm by vol		1000
Carbon dioxide content (CO <sub>2</sub> )	Mole %		2.5
Hydrogen sulphide content (H <sub>2</sub> S) (inclusive of COS) (as S)	mg/m <sup>3</sup> (n) (as S)		5
Total sulphur at any time (as S)	mg/m <sup>3</sup> (n) (as S)		30
Mercaptans (as S)	mg/m <sup>3</sup> (n)		6

(1) This value will be lowered in agreement with the adjacent operator, subject to compliance with the range and values of the Belgian legislation as in effect at that time

The Natural Gas redelivered may not contain other elements and impurities (such as but not limited to methanol, condensates, gas odorants) to the extent that the Natural Gas redelivered cannot be transported, stored and marketed in Belgium without incurring additional cost for quality adjustment

The Natural Gas delivered may not contain any added odorants.

**4312 - Operating Conditions and quality requirements at Blaregnies L**

	<b>Unit</b>	<b>Min.</b>	<b>Max.</b>
Gross Calorific Value	kWh/m <sup>3</sup> (n) (25°C, 0°C)	9.53	10.74
Wobbe Index	kWh/m <sup>3</sup> (n) (25°C, 0°C)	12.20 <sup>(1)</sup>	13.02
Pressure	barg	49	66.2
Temperature	°C	2	38
Hydrocarbon dewpoint	°C from 0 to 69 barg		Minus 2
Water dewpoint	°C at 69 barg		Minus 8
Oxygen content (O <sub>2</sub> )	ppm by vol		1000
Carbon dioxide content (CO <sub>2</sub> )	Mole %		2.5
Hydrogen sulphide content (H <sub>2</sub> S) (inclusive of COS) (as S)	mg/m <sup>3</sup> (n) (as S)		5
Total sulphur at any time (as S)	mg/m <sup>3</sup> (n) (as S)		30
Mercaptans (as S)	mg/m <sup>3</sup> (n)		6

(1) This value will be lowered in agreement with adjacent operator, subject to compliance with the range and values of the Belgian legislation as in effect at that time

The Natural Gas redelivered may not contain other elements and impurities (such as but not limited to methanol, condensates, gas odorants) to the extent that the Natural Gas redelivered cannot be transported, stored and marketed in Belgium without incurring additional cost for quality adjustment

The Natural Gas delivered may not contain any added odorants.



**4413 - Operating Conditions and quality requirements at Zeebrugge LNG Terminal**

	<b>Unit</b>	<b>Min.</b>	<b>Max.</b>
Gross Calorific Value	kWh/m <sup>3</sup> (n) (25°C, 010)	10.80	12.77
Wobbe Index	kWh/m <sup>3</sup> (n) (25°C, 0°C)	13.67	15.56
Pressure	barg	55	80
Temperature	°C	2	38
Hydrocarbon dewpoint	°C from 0 to 69 barg		Minus 2
Water dewpoint	°C at 69 barg		Minus 8
Oxygen content (O <sub>2</sub> )	ppm by vol		1000
Carbon dioxide content (CO <sub>2</sub> )	Mole %		2.5
Hydrogen sulphide content (H <sub>2</sub> S) (inclusive of COS) (as S)	mg/m <sup>3</sup> (n) (as S)		5
Total sulphur at any time (as S)	mg/m <sup>3</sup> (n) (as S)		30
Mercaptans (as S)	mg/m <sup>3</sup> (n) (as S)		6

The Natural Gas delivered may not contain any other elements or impurities (such as, but not limited to methanol, condensates and gas odorants) to the extent that the Natural Gas delivered cannot be transported, stored or marketed in Belgium without incurring additional cost for quality adjustment.

The Natural Gas delivered may not contain any added odorants.

To the extent that in future all gas flows through and into Belgium, which could potentially be impacted by the prospective Shipper's gas delivery at the border, may accept wider quality specifications, the table above shall be adjusted accordingly subject to compliance with the ranges and values of the EASEE-Gas Common Business Practices or any other applicable European standard as in effect at that time at a European level.

**14 Operating Conditions and quality requirements at Dunkirk LNG Terminal**

	<b>Unit</b>	<b>Min.</b>	<b>Max.</b>
Gross Calorific Value	kWh/m <sup>3</sup> (n) (25°C, 0°C)	11.17	12.77
Wobbe Index	kWh/m <sup>3</sup> (n) (25°C, 0°C)	14.17	15.47 <sup>(1)</sup>
Pressure	barg	55	84.5
Temperature	°C	2	38
Hydrocarbon dewpoint	°C from 0 to 69 barg		Minus 2
Water dewpoint	°C at 69 barg		Minus 10
Oxygen content (O <sub>2</sub> )	ppm by vol		1000
Carbon dioxide content (CO <sub>2</sub> )	Mole %		2.5
Hydrogen sulphide content (H <sub>2</sub> S) (inclusive of COS) (as S)	mg/m <sup>3</sup> (n) (as S)		5
Total sulphur at any time (as S)	mg/m <sup>3</sup> (n) (as S)		30
Mercaptans (as S)	mg/m <sup>3</sup> (n) (as S)		6

(1) For redeliveries of Natural Gas at IZT/Zeebrugge, we refer to [ACT - Attachment C1, art.3.9 of Attachment A to the Access Code for Transmission](#).

The Natural Gas delivered may not contain any other elements or impurities (such as, but not limited to methanol, condensates and gas odorants) to the extent that the Natural Gas delivered cannot be transported, stored or marketed in Belgium without incurring additional cost for quality adjustment.

The Natural Gas delivered may not contain any added odorants.

To the extent that in future all gas flows through and into Belgium, which could potentially be impacted by the prospective Shipper's gas delivery at the border, may accept wider quality specifications, the table above shall be adjusted accordingly subject to compliance with the ranges and values of the EASEE-Gas Common Business Practices or any other applicable European standard as in effect at that time at a European level.

**15 - Operating Conditions and quality requirements at Loenhout**

	<b>Unit</b>	<b>Min.</b>	<b>Max.</b>
Gross Calorific Value	kWh/m <sup>3</sup> (n) (25C, 0°C)	10.80	12.77
Wobbe Index	kWh/m <sup>3</sup> (n) (25C, 0°C)	13.82	15.56 <sup>(1)</sup>
Pressure <sup>(2)</sup>	barg	60	80
Temperature	C	2	38
Hydrocarbon dewpoint	°C from 0 to 69 barg		Minus 2
Water dewpoint	°C at 69 barg		Minus 8
Oxygen content (O <sub>2</sub> )	ppm by vol		1000
Carbon dioxide content (CO <sub>2</sub> )	Mole %		2.0 <sup>(3)</sup>
Hydrogen sulphide content (H <sub>2</sub> S) (inclusive of COS) (as S)	mg/m <sup>3</sup> (n) (as S)		5
Total sulphur at any time (as S)	mg/m <sup>3</sup> (n) (as S)		30
Mercaptans (as S)	mg/m <sup>3</sup> (n)		6

- (1) For redeliveries of Natural Gas at IZT/Zeebrugge, we refer to [ACT - Attachment C1.art.3.9 of Attachment A to the Access Code for Transmission.](#)
- (2) A lower minimum pressure can be agreed upon by Fluxys and the Storage Operator in line with the provisions of attachment D.2 of the Access Code for Storage.
- (3) CO<sub>2</sub> content of the Natural Gas injected must on average be lower than 1 Mole % over the Storage Season, as defined in the Access Code for Storage

The Natural Gas redelivered may not contain other elements and impurities (such as but not limited to methanol, condensates, gas odorants) to the extent that the Natural Gas redelivered cannot be transported, stored and marketed in Belgium without incurring additional cost for quality adjustment

The Natural Gas delivered may not contain any added odorants.

To the extent that in future all gas flows through and into Belgium, which could potentially be impacted by the prospective Shipper's gas delivery at the border, may accept wider quality specifications, the table above shall be adjusted accordingly subject to compliance with the ranges and values of the EASEE-Gas Common Business Practices or any other applicable European standard as in effect at that time at a European level.