Attachment 3:

**Comparison Table of the Amendments to the Relevant Rules**

**1. Comparison Table of the Amendments to** **Coking Coal Futures Contract of Dalian Commodity Exchange**

(Contents newly added are in shade; and contents deleted are marked with double strikethrough.)

| **Original Articles** | **Amended Articles** |
| --- | --- |
| |  |  | | --- | --- | | Deliverable Grades | Coking Coal Delivery Quality Standard of DCE (F/DCE JM001-2018) | | |  |  | | --- | --- | | Deliverable Grades | Coking Coal Delivery Quality Standard of DCE (F/DCE JM0013-201822) | |

**2. Comparison Table of the Amendments to Detailed Rules of Coking Coal Futures of Dalian Commodity Exchange**

(Contents newly added are in shade; contents deleted are marked with double strikethrough; and clauses unchanged are represented by ellipsis.)

| **Original Articles** | **Amended Articles** |
| --- | --- |
| Article 4 The quality standards for and the quality discounts and/or premiums of standard deliverable products and substitutes under the coking coal futures contract are detailed in the *Coking Coal Delivery Quality Standards of Dalian Commodity Exchange (F/DCE JM001-2018)* as Annex 1 attached hereto. | Article 4 The quality standards for and the quality discounts and/or premiums of standard deliverable products and substitutes under the coking coal futures contract are detailed in the *Coking Coal Delivery Quality Standards of Dalian Commodity Exchange (F/DCE JM0013-201822)* as Annex 1 attached hereto. |
| Article 27 The receiving and consigning weights of coking coal shall be subject to the weighting by the designated delivery warehouse through the measurement of wagon balance or rail weighbridge. The designated delivery warehouse shall, on the basis of the moisture test result of the coking coal issued by the quality inspection agency designated by the Exchange and subject to the provisions of the *Coking Coal Delivery Quality Standards of Dalian Commodity Exchange (F/DCE JM001-2018),* calculate the weight which shall be the basis for issuing a warehouse receipt. | Article 27 The receiving and consigning weights of coking coal shall be subject to the weighting by the designated delivery warehouse through the measurement of wagon balance or rail weighbridge. The designated delivery warehouse shall, on the basis of the moisture test result of the coking coal issued by the quality inspection agency designated by the Exchange and subject to the provisions of the *Coking Coal Delivery Quality Standards of Dalian Commodity Exchange (F/DCE JM0013-201822),* calculate the weight which shall be the basis for issuing a warehouse receipt. |
| Article 32 Upon the coking coal being loaded out of the warehouse, the designated delivery warehouse shall issue to the owner the actual test result of moisture tested by the designated delivery warehouse and produce the quality inspection report upon registration of the warehouse receipt.  The designated delivery warehouse shall calculate, on the basis of the actual test result of moisture and the *Coking Coal Delivery Quality Standards of Dalian Commodity Exchange (F/DCE JM001-2018)*, the weight to be loaded out of the warehouse and then have the sufficient weight loaded out.  … | Article 32 Upon the coking coal being loaded out of the warehouse, the designated delivery warehouse shall issue to the owner the actual test result of moisture tested by the designated delivery warehouse and produce the quality inspection report upon registration of the warehouse receipt.  The designated delivery warehouse shall calculate, on the basis of the actual test result of moisture and the *Coking Coal Delivery Quality Standards of Dalian Commodity Exchange (F/DCE JM0013-201822)*, the weight to be loaded out of the warehouse and then have the sufficient weight loaded out.  … |
| Annex 1:  Coking Coal Delivery Quality Standard of Dalian Commodity Exchange  (F/DCE JM001-2018) | Annex 1:  Coking Coal Delivery Quality Standard of Dalian Commodity Exchange  (F/DCE JM0013-201822) |
| 2. Cited rules and standards  The provisions of the following documents are incorporated as the provisions of the Standard by reference. For those cited documents noted with dates, all of their following *amendments* (excluding corrections) and revised versions shall not be applied to the Standard; for those without noted dates, their latest versions shall be applied to the Standard.  *GB/T 5751 Classification of Coals of China*  *GB/T 212 Methods for Proximate Analysis of Coal*  *GB/T 214 Methods for Determination of Total Sulfur in Coal*  *GB/T 479 Methods for Determination of Plastometric Index of Bituminous Coal*  *GB/T 5447 Methods for Determination of Caking Index of Bituminous Coal*  *GB/T 6948 Methods for Microscopical Determination of Reflectance of Vitrinite in Coal*  *GB/T 15591 Methods for Determination of Reflectogram of Coal for Commercial Use*  *GB/T 397 Technical Specification of Coal for Coke Making*  *GB/T 3715 Terminologies Relating to Properties and Analysis of Coal*  *GB 475 Methods for Manual Sampling of Coal for Commercial Use*  *Q/CY-MKZY-006-2012 Experimental Methods of Coke Making with Coking Coal - Methods of 40kg Experimental Coke Oven* | 2. Cited rules and standards  The provisions of the following documents are incorporated as the provisions of the Standard by reference. For those cited documents noted with dates, all of their following *amendments* (excluding corrections) and revised versions shall not be applied to the Standard; for those without noted dates, their latest versions shall be applied to the Standard.  *GB/T 5751 Classification of Coals of China*  *GB/T 212 Methods for Proximate Analysis of Coal*  *GB/T 214 Methods for Determination of Total Sulfur in Coal*  *GB/T 479 Methods for Determination of Plastometric Index of Bituminous Coal*  *GB/T 5447 Methods for Determination of Caking Index of Bituminous Coal*  *GB/T 6948 Methods for Microscopical Determination of Reflectance of Vitrinite in Coal*  *GB/T 15591 Methods for Determination of Reflectogram of Coal for Commercial Use Judging Method for Mixed Coal Type of Commercial Coal*  *GB/T 397 Technical Specification of Coal for Coke Making*  *GB/T 3715 Terminologies Relating to Properties and Analysis of Coal*  *GB/T 475 Methods for Manual Sampling of Coal for Commercial Use*  *Q/CY-MKZY-006-2012 Experimental Methods of Coke Making with Coking Coal - Methods of 40kg Experimental Coke Oven*  *GB/T 4000 Determination of Coke Reactivity Index (CRI) and Coke Strength after Reaction (CSR)*  *GB/T 8170 Rules of Rounding off for Numerical Values & Expression and Judgement of Limiting Values*  *MT/T 1181 Test of Coking Property for Coking Coal* |
| **4. Quality requirements**  4.1 Quality requirements for standard products   |  |  |  | | --- | --- | --- | | **Item** | **Quality Standards** | | | Ash (Ad) | 10.0% | | | Sulfur (St,d) | 0.7% | | | Volatiles (Vdaf) | ≥16.0% and ≤28.0% | | | Caking Index (G) | Load-in≥75% | Load-out>65% | | Maximum Plastometric Thickness (Y) | ≤25.0 mm | | | Experimental coke oven produced coke strength after reaction (CSR) | ≥60% and ≤65% | |   4.2 Allowances (premiums/discounts) for quality difference of substitute products   |  |  |  |  | | --- | --- | --- | --- | | **Item** | **Scope of Tolerance** | **Premium / Discount (CNY/MT)** | | | Ash (Ad) | ≤10.5% | >10.0% and ≤10.5% | Each addition of 0.1%, discount 4 | | ≥9.0% and ＜10.0% | Each reduction of 0.1％, premium of 2 | | <9.0% | Calculated based on 9.0% | | Sulfur (St,d) | ≤1.6% | >1.30% and ≤1.60% | Each addition of 0.01%, discount 5  (Calculated continuously based on the previous discount) | | >1.00% and ≤1.30% | Each addition of 0.01%, discount 2.5  (Calculated continuously based on the previous discount) | | ≥0.70% and <1.00% | Each addition of 0.01%, discount 1.5 | | ≥0.50% and <0.70% | Each reduction of 0.01%, premium 0.5 | | <0.50% | Calculated based on 0.50% | | Experimental coke oven produced coke strength after reaction (CSR) | ≥55% | ≥55% and ＜60% | Discount 100 | | ＞65% | 0 | | Maximum Plastometric Thickness (Y) | Unlimited | > 25.0mm | 0 | | **4. Quality requirements**  4.1 Quality requirements for standard products   |  |  |  | | --- | --- | --- | | **Item** | **Quality Standards** | | | Ash (Ad) | 10.0%10.5% | | | Sulfur (St,d) | 0.7%1.30% | | | Volatiles (Vdaf) | ≥16.0% and ≤28.0%[16.0%, 26.0%] | | | Caking Index (GGR.I) | Load-in≥75% | Load-out>65% | | Maximum Plastometric Thickness (Y) | ≤25.0 mm≥10.0mm | | | Experimental coke oven produced coke strength after reaction (CSR) | ≥60% and ≤65%[60%, 65%) | |   4.2 Allowances (premiums/discounts) for quality difference of substitute products   |  |  |  |  | | --- | --- | --- | --- | | **Item** | **Scope of Tolerance** | **Premium / Discount (CNY/MT)** | | | Ash (Ad) | ≤10.5%  11.0% | >10.0% and ≤10.5%  (10.5%, 11.0%] | Each addition of 0.1%, discount 4  Discount of 30 | | ≥9.0% and ＜10.0%(10.0%, 10.5%) | Each reduction of 0.1％, premium of 2  Premium of 0 | | <9.0%  ≤10.0% | Calculated based on 9.0%  Premium of 30 | | Sulfur (St,d) | ≤1.60% | >1.30% and ≤1.60%  (1.30%, 1.60%] | Each addition of 0.01%, discount 5  (Calculated continuously based on the previous discount)  Each addition of 0.01%, discount of 5 | | >1.00% and ≤1.30% | Each addition of 0.01%, discount 2.5  (Calculated continuously based on the previous discount) | | ≥0.70% and <1.00%  [0.70%, 1.30%) | Each addition of 0.01%, discount 1.5  Each reduction of 0.01%, premium of 2.5 | | ≥0.50% and <0.70% | Each reduction of 0.01%, premium 0.5 | | <0.50%  <0.70% | Calculated based on 0.50%0.70% | | Volatiles (Vdaf) | [16.0%, 28.0%] | (26.0%, 28.0%] | Discount of 50 | | Experimental coke oven produced coke strength after reaction (CSR) | ≥55%60% | ≥55% and ＜60% | Discount 100 | | ＞65%≥65% | 0Premium of 80 | | Maximum Plastometric Thickness (Y) | Unlimited | > 25.0mm | 0 | |
| 4.4 Proportion of vitrinite maximum reflectance (Rmax) at 1.0-1.6 ≥ 70%. | 4.4 Proportion of vitrinite maximum reflectance (Rmax) at 1.0%-1.67% ≥ 70%. |
| 4.5 Moisture content (Mt)≤8.0%. If Mt > 8.0%, the exceeding part will be rounded- to one decimal place for weight deduction (for example, if the measured Mt is 9.32%, the weight deduction shall be 1.3%). | 4.5 Moisture content (Mt) (Mt)≤8.0%. If Mt > 8.0%, the exceeding part will be rounded- to one decimal place for weight deduction (for example, if the measured Mt is 9.32%, the weight deduction shall be 1.3%).moisture content (Mt)>8.0%, converted weight per 100 lots = 6000 (tons) × (1-8.0%) / [1- actual test result of moisture (%)]. |
| 5.1 Sampling and preparation of samples shall be subject to the standards in *GB 475*. | 5.1 Sampling and preparation of samples shall be subject to the standards in *GB/T 475*. |
| 5.4 Determination of caking index shall be subject to the standards in *GB/T 5447*. | 5.4 Determination of caking index shall be subject to the standards in *GB/T 5447*. |
| 5.6 Determination of random reflectance of vitrinite shall be subject to the standards in *GB/T 6948*. | 5.6 Determination of random reflectance and maximum reflectance of vitrinite shall be subject to the standards in *GB/T 6948*. |
| 5.8 Determination of experimental coke oven produced coke strength after reaction (CSR) shall be subject to the standards in *Q/CY-MKZY-006-2012*. | 5.8 Determination of experimental coke oven produced coke strength after reaction (CSR) shall be subject to the standards in *Q/CY-MKZY-006-2012 MT/T 1181* and *GB/T 4000*. |
|  | 5.9 Rules of rounding off for numerical values & expression and judgement of limiting values shall be subject to the standards in *GB/T 8170*. |