

Deutsche Akkreditierungsstelle GmbH

Signatory to the Multilateral Agreements of
EA, ILAC and IAF for Mutual Recognition

Accreditation

The Deutsche Akkreditierungsstelle GmbH attests that the testing laboratory

**Technical Control Department of JSC "Altai-Koks"
2, Pritaezhnaya str., 659107 ZARINSK, ALTAI REGION
RUSSIAN FEDERATION**

is competent under the terms of ISO/IEC 17025:2005 to carry out tests in the following fields:

**physical and physical-chemical analysis of solid fuels and testing of metallurgical coke for
determination of Coke Reactivity Index (CRI) and Coke Strength after Reaction (CSR)**

The accreditation certificate is valid until 26.04.2022. It comprises the cover sheet, the reverse side of the cover sheet and the following annex with a total of 2 pages.

Registration number of the certificate: **D-PL-18190-01-00**

Berlin, 16.05.2017



Ralf Egner
Head of Division

See notes overleaf.

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-18190-01-00 according to ISO/IEC 17025:2005

Period of validity: 27.04.2017 to 26.04.2022

Date of issue: 16.05.2017

Holder of certificate:

**Technical Control Department of JSC "Altai-Koks"
2, Pritaezhnaya str., 659107 ZARINSK, ALTAI REGION
RUSSIAN FEDERATION**

Tests in the fields:

**physical and physical-chemical analysis of solid fuels and testing of metallurgical coke for
determination of Coke Reactivity Index (CRI) and Coke Strength after Reaction (CSR)**

Abbreviations used: see last page

The testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, to use standards or equivalent testing methods listed here with different issue dates. The testing laboratory maintains a current list of all testing methods within the flexible scope of accreditation.

GOST 32248-2013 2015-01	Coal core with size of pieces 20 mm and more. Method of strength determination after reaction with carbon dioxide
ISO 18894 2006-04	Coke - Determination of coke reactivity index (CRI) and coke strength after reaction (CSR)
ASTM D 5341/D 5341M 2014-09	Standard Test Method for Measuring Coke Reactivity Index (CRI) and Coke Strength After Reaction (CSR)
GOST R 52917-2008 2009-01 (ISO 11722:2013-07, ISO 5068-2:2007-02)	Solid mineral fuels. Methods for determination of moisture in the analysis test sample

GOST R 55661-2013 2015-01 (ISO 1171:2010-06)	Solid mineral fuel. Determination of ash
GOST R 55660-2013 2015-01 (ISO 562:2010-06)	Solid mineral fuel. Determination of volatile matter
GOST 32465-2013 2015-01 (ISO 19579:2006-10)	Solid mineral fuel. Determination of sulfur by IR spectrometry
GOST R 55659-2013 2015-01 (ISO 7404-5:2009-10)	Methods for the petrographic analysis of coals. Part 5. Method of determining microscopically the reflectance of vitrinite

abbreviations used:

ASTM	American Society for Testing Materials
ISO	International Organization for Standardization
GOST R	National Standard of the Russian Federation approved by the Federal Agency for Technical Regulation and Metrology (Rostekhnregulirovaniye)
CRI	Coke Reactivity Index
CSR	Coke Strength after Reaction