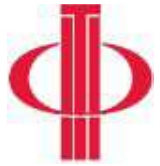




**DAYE SPECIAL STEEL CO., LTD.**  
NO. 316 HUANGSHI AVENUE, HUANGSHI, HUBEI, CHINA PC:435000  
**INSPECTION CERTIFICATE**  
ACC TO EN10204 3.1



CONTRACT NO: GBDEU17209INT  
TO: INTERFER EDELSTAHL HANDELSGESELLSCHAFTGMBH  
WACHHAUSSSTR.5C,D-76227 KARLSRUHE,GERMANY  
DESCRIPTION OF GOODS: ALLOY STEEL ROUND BARS  
Custom Specification:XYGW0200.1-2014

Batch No.	Grade	Heat No.	Size (mm)	Pieces	Bundles	Weight (MT)	Delivery Condition
H617140560	42CrMoS4+QT	7083924Z	25	449	4	9.818	quenched and tempered

I、Chemical Composition (%):												
Ladle Product1)	C:0.41	Si:0.23	Mn:0.74	P:0.010	S:0.025	Cr:1.11	Ni:0.13	Mo:0.20	Cu:0.05	Al:0.029	V:0.007	Sn:0.0034
	radioactivity(Bq/g):0.02											

II、Mechanical Properties Examination:			
1、 tensile test temp :	R, M temp	2、 tensile test direction :	Longitudinal
3、 tensile test standard :	EN 10002-1	4、 tensile sampling location :	12.5mm from surface
5、 yield strength ReL (MPa):	1006	6、 tensile strength Rm (MPa):	1099
7、 elongation after fracture A(%):	15.0	8、 reduction of area Z(%):	59
9、 impact test temp(°C):	20	10、 impact test direction :	Longitudinal
11、 impact V notch depth :	2mm	12、 impact test standard :	EN 10045-1
13、 impact sampling location :	12.5mm from surface	14、 impact absorbed energy KV2(J):	98 103 115
15、 impact test temp(°C):	-20	16、 impact test direction :	Longitudinal
17、 impact V notch depth :	2mm	18、 impact absorbed energy KV2(J):	90 85 85
19、 impact test temp(°C):	-40	20、 impact test direction :	Longitudinal
21、 impact V notch depth :	2mm	22、 impact absorbed energy KV2(J):	78 81 84

III、Microstructure Examination:			
1、 non-metallic inclusion test standard :	DIN 50602	2、 K3[0] property values :	0.9
3、 grain size test standard :	ASTM E112	4、 grain size(level):	7-6

IV、NDT:			
1、 UT :good	2、 UT test standard :SEP1921	3、 UT test level :3D/d	4、 UT :good
5、 UT test standard :EN10308	6、 UT test level :class 3	7、 residual magnetic field(A/cm):8	

V、Heat Treatment:			
1、 quenching temperature(°C):850	2、 quenching soaking time(min):80	3、 quenching cooling method :water cooling	4、 starting temperature of quench media(°C):20
5、 finishing temperature of quench media(°C):22	6、 tempering temperature(°C):575	7、 tempering soaking time(min):110	8、 tempering cooling method :air cooling

VI、Dimensions, Appearance and Surface Quality:	
1、 dimensions, appearance and surface quality :good	2、 spark test :good

VII、Others:	
1、 manufacturing process :EAF+LF+RH/VD+CC	2、 reduction ratio :117.4

Note:	(1) We hereby certify that the material herein described has been manufactured, sampled, tested and inspected in accordance with the requirements of specifications and purchase order, and meet requirements	Date: 2015-08-15 Inspector: Huang Jiazhen Manager of Inspection: Liuguanghui
	(2) When there is any complaint, you are kindly requested to mark the Steel Grade, Heat No., Size, Delivery Date, Causes and reserve the material in the condition of delivery	
	(3) Our company's quality management system has been certified by TÜV SÜD for fulfilling all requirements of ISO9001:2008, ISO/TS 16949.	
	"Free from mercury and Cadmium", "Production refer to EN10083-1 and EN 10083-3", Tolerance refer to EN 10060". Surface test: 100% dia 20-150 mm max. 0.3 mm, dia 151-250 mm max. 0.5 mm, Straightness max. 2.5 mm/m	