



石家庄第一水泵厂有限公司
SHIJIAZHUANG FIRST PUMP FACTORY CO., LTD.

High-chrome Alloy A05 High Chrome White Iron

Summary

Cr Content: $\geq 26\%$

PH Value Scope of Application: 5-11

Rockwell Hardness: 60 to 65 HRC

Similar Brand:

- Germany (DIN1695-81) G-X260Cr27
- Britain (BS4844-86) 3D (Low-carbon), 3E(High-carbon)
- America(ASTM4532-80)III25%Cr
- Sweden (MNC708E-71) SIS0466-00



Physical & Chemical Test Report

Material	High Chrome White Iron A05 (KmTBCr26)		
Test Dept.	Casting Dept.	Date of Entrustment	2015-04-23
Sample No.	ZZ022	Batch No.	20500182
Test QTY	16	Test Date	2015-05-04
Test Requirement & Purpose		Chemical Composition	

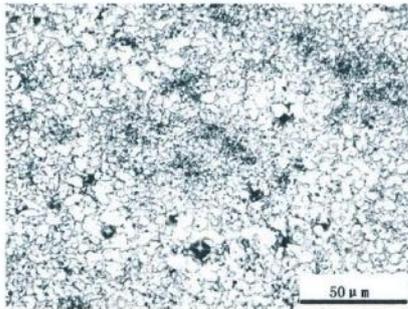
Test Content & Result

Chemical Composition (%)

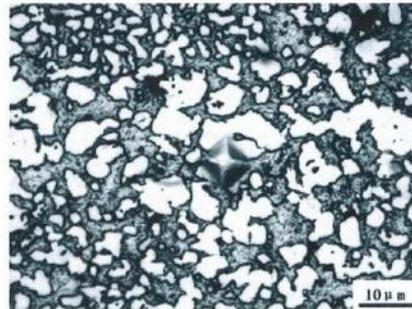
Component	Cr	C	Si	Mn	S	P	V	RE	Cu
Item No.									
ZZ022	26.7	2.48	0.95	0.94	0.085	0.055	0.4	0.28	0.78
Norm (%)	23.0-30.0	2.0-3.3	≤1.2	≤2.0	≤0.1	≤0.06	≤0.6	≤0.30	≤2.0
Inspector		Verifier			Issuer			Issue Date	
王帆		任娜			苏钢			2015.5.4	

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Test Dept.	Casting Dept.	Date of Entrustment	2015-04-23
Sample No.	ZZ022	Batch No.	20500182
Test QTY	16	Test Date	2015-05-04
Test Requirement & Purpose		Metallographic Analysis	

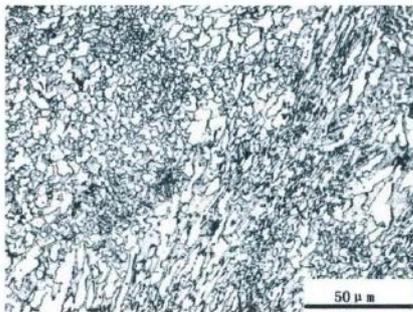
Test Content & Result



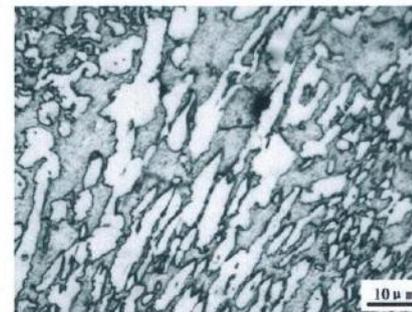
FOV1 200 X



FOV 500 X



FOV2 200 C X



FOV2 500 X

Microstructure: $M + \gamma_{\text{a little}} + \text{Carbide}$

Microhardness of black field: 927.2~956.0HV₅₀(See FOV1)-**Martensite**; Microhardness of a little white field 385HV₅₀-**Retained Austenite**; Microhardness of field of white isolated island structure: >1197.3HV₅₀-**M₇C₃ Type Carbide**. Some carbide is strip shape (SeeFOV2).

Inspector	Verifier	Issuer	Issue Date
冯静	李步宁	张永伟	2015.5.4