



INSPECTION CERTIFICATE

产品质量证明书 (EN10204-3.1)



CPR Cert.no: 0035-CPR-A211

Jiangyin Hengrun Ring Forging Co., Ltd.
Zhutang Industrial Zone, Jiangyin City,
Jiangsu Province, China 214415
TEL: 008651086396222

Certificate No.证书号:

HR20230608013

PO No.合同号:

5310000300

Customer 客户:

ADANI GREEN ENERGY LTD

Date日期:

2023/6/15

Part No. 产品编号	Description 产品规格 (mm)	Heat No. 炉号	Batch No. 热处理批号	Sample No. 样品编号	Test No. 取样编号
6-0003	φ3916*φ3608*160	S12304003QX	04-230518-N-1	HR-230526-06	6-0002
6-0002	φ3916*φ3608*160	S12304003QX	04-230518-N-1	HR-230526-06	6-0002

Forging Ratio/锻造比: 8.58

Heat treatment Condition /热处理状态: Normalized:900℃/8HRS+Air Cooled

Chemical Composition(%) /化学成分				Specification/执行规范: EN 10025-3:2019				Material/材质: S355NL-Z35			
Heat No. 炉号	*3	C ≤0.20	Si ≤0.55	Mn 0.85-1.75	P ≤0.030	S ≤0.025	Nb ≤0.06	V ≤0.14	Ti ≤0.06	Cr ≤0.35	Ni ≤0.55
S12304003QX	L	0.14	0.27	1.34	0.011	0.0011	0.022	0.022	0.0021	0.06	0.02
	P	0.14	0.303	1.3	0.008	0.001	0.021	0.021	0.003	0.063	0.037
	*3	Cu ≤0.60	N ≤0.017	Mo ≤0.13	Al ≥0.015	Cev ≤0.45					
	L	0.03	0.00913	0.01	0.0276	0.39					
	P	0.025	0.0083	0.007	0.027	0.38					

Mechanical Test /机械性能检测

Items 项目	Tensile strength 抗拉强度(MPa)	Yield strength 屈服强度(MPa)	Elongation 延伸率 (A)%	Reduction of Area 断面收缩率(Z)%	Impact Test 冲击功(J)			晶粒度
Requirements 要求值	450-600	≥285	≥21	≥35	Minimum(最小): 27J/16J			Temp. 温度(℃)
Longitudinal(纵向)	499	310	35.5	76	156	141	153	8
	502	305	33.0	73	138	150	126	
	496	309	31.5	75	159	132	147	
Transverse(横向)	503	340	35.5	76	159	147	126	
	501	316	33.5	74	132	147	147	
	496	340	31.0	76	144	153	129	
Z35	/	/	/	75/70/74				

Hardness硬度(HBW):N/A

UT Standard acc.to/检验标准: EN 10228-3	Quality Class/等级: 4	Result/结果:Accepted 合格
MT Standard acc.to/检验标准: EN 10228-1	Quality Class/等级: 4	Result/结果:Accepted 合格

Dimension & Visual /尺寸和外观: Accepted 合格

Notes/备注:

- 1.Dimension Tolerance/尺寸公差: As per purchase specs.and ISO 2768-1 根据采购规范和 ISO 2768-1
- 2.Weldability, durability and regulated substance可焊性、耐久性和规定物质: No performance determined/未确定
- 3.L=Ladle Analysis/熔炼分析,P=Product Analysis成品分析, CEV=[C+Mn/6+(Cr+Mo+V)/5+(Ni+Cu)/15]×100%

We hereby certify that the product herein has been made and tested in accordance with the above specification and also with the requirements set forth in the Order.,according to EN10204 3.1

兹证明, 本文件中的产品按照上述规范和订单中规定的要求制造和测试, 符合EN10204 3.1

Quality Manager & Works Inspector

QR8.2.4-43 REV.02