

SHANDONG LUYUAN FIRE TECHNOLOGY CO., LTD

MILL TEST CERTIFICATE

Serial Number: LY/JL-20-100

Date: 4th January 2020

Supplier	SHANDONG LUYUAN FIRE TECHNOLOGY CO., LTD			Material	Ductile Iron	Standard	ASTM A-536 grade 65-45-12		
Order Number	LYSM1902	Quantity	7893Pcs	Quantity of Inspection	10 of Each Batch	Unqualified	0		
Character	Production			Qualified Rate	100%	Manufacturing date	1st Jan 2020-4th January 2020		
Inspection Category	Exporting order			Inspector	Xu Guoxia	Date	4th January 2020		
Inspection Instrument	Mechanical properties and casting composition test								
Mechanical propertie test									
Test items	Tensile strength	Elongation	HB	Grade of	pearlite content	Cementite content			
Standard Values	≥450	≥12	149-190	≤3	≤45%	≤3%			
Measured Values	520	13.8	171	3	30%	0			
Casting composition test									
Chemical Component %			C	Si	Mn	S	P	RE	Mg
Mark	ASTM A-536 grade 65-45-12	Standard Values	3.6-3.9	2.5-3.0	≤0.35	< 0.03	< 0.07	0.02-0.04	0.03-0.06
		Measured Values	3.89	2.91	0.1	0.023	0.043	0.025	0.04
The Inspection Report Is Applicable To		Grooved 90 °Elbow LONG			Grooved Con Reducer				
		Grooved 45 °Elbow			Grooved Con Reducer Female Threaded				
		Grooved Rigid Coupling			Grooved Equal Tee LONG				
		Grooved Flexible Coupling			Grooved Reducing Tee				
		Grooved Reducing Tee Threaded Ends			Grooved Mechanical Tee with Threaded outlet				
		Grooved Mechanical Tee			Grooved Flange Class150				
		Grooved Flange PN16			Grooved End Cap				
Inspection Result: Qualified									

Inspector: Xu Guoxia

Manager: Liu Junting