

H.L.S ESPAÑA S.L

LORENZO SALVADOR DE GEA ELVIRA

Nº COLEGIADO 17247


C/SOR MARIA DE AGREDA LOCAL 1 47 BIS

C.P 28017 MADRID

CERTIFICATE OF MATERIAL ANALYSIS

Powder blank

Material Spec	Gesac Grade	Lot No.	Quantity(Pcs)						
-	GH231	2312303005	2						
Chemical Composition									
SN	Element	Spec.	Inspection Result	Conclusion	SN	Item	Spec.	Inspection Result	Conclusion
1	W (%)	94.0-96.0	94.90	Pass	1	HV30	375±15	382.0	Pass
2	NI (%)	4.20±0.16	4.20	Pass	2	D(g/cc)	17.6	17.65	Pass
3	Fe (%)	2.50±0.14	2.50	Pass	3	Elongation(%)	≥15	17.0	Pass
4	CO (%)	0.30±0.04	0.30	Pass	4	Yield strength 0.2% (MPa)	860 ± 50	905.0	Pass
5	Mn (%)	0.04±0.005	0.04	Pass	5	Tensile strength(MPa)	1080 ± 25	1103.0	Pass

Physical Characteristics					Microstructure				
SN	Element	Spec.	Inspection Result	Conclusion	Microstructure				
									

Signature:  2023/5/5
 QUALITY CONTROL DEPARTMENT