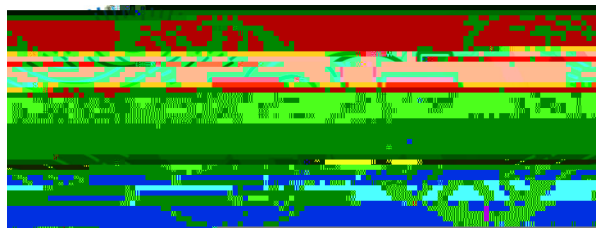


SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELEMENT MATERIALS TECHNOLOGY CHICAGO  
194 Internationale Boulevard  
Glendale Heights, IL 60139  
Ken Perrone Phone: 630 221 0385 x76237  
e-mail: [Ken.Perrone@element.com](mailto:Ken.Perrone@element.com)

<u>Test</u>	<u>Test Method(s)</u>
<u>Metals (continued)</u>	
Fillet Fracture Test	AWS B2.1/B2.1M, D1.1/D1.1M, D1.3/D1.3M, D14.1/14.1M; ASME (Section IX); MIL-STD 1595 (1998)
Hardenability	ASTM A255
Hardness	
Rockwell (A, B, C, E, F, 15N, 30N, 45N, 15T, 30T, 45T)	ASTM A370, A623, B294, E18, F606/606M; NASM 1312-6
Brinell (500 and 3000) kgf	ASTM A370, E10
Microhardness – Knoop and Vickers (25 to 1000) gf	ASTM E384; NASM 1312-6
Macrohardness – Vickers (5 and 10) kgf	ASTM E92
Heat Treat (Raw Material)	AMS 2750E
Impact Testing (Charpy and Izod) (-320 to 450) °F	ASTM A370, E23; BS EN ISO 148-1; BS EN 10045-1 (2001)
Metallographic Evaluation	
Alpha Case	ASTM F136; SOP 02-11-S007
Case Depth	ASTM F2328; SAE J423
Delta Ferrite Determination	AMS 2315
Depth of Decarburization	ASTM A1077, F2328; SAE J121 (2013), J419
Discontinuities (Surface)	ASTM F788, F812; ISO 6157; SAE J122, J123 (2012), J1061
Grain Size	ASTM E112, E930, E1181
Inclusions in Steel	ASTM E45 (Methods A&D), E1245; SAE J422
Macroetch	ASTM A561, A604/A604M, E381, E340; ASME (Section IX)
Microetch	ASTM E407
Microstructure Evaluation	ASTM A247, A92, E1268; ASM Metals HBK, Vol. 9
Plating Thickness	ASTM B487
Preparation	ASTM E3
Volume Fraction by Point Count	ASTM E562, A800/A800M
Passivation Testing	ASTM A380/A380M, A967/A967M, F1089
Peel	ASME (Section IX)
Powder Characterization	
Apparent Density (Carney)	ASTM B417
Apparent Density (Hall)	ASTM B212
Apparent Density (Scott)	ASTM B329
Carney Flow Rate	ASTM B964
Flow Rate (Hall)	ASTM B213
Metal Powder Sampling	ASTM B215
Particle Size Distribution by Sieve	ASTM B214
Tap Density	ASTM B527
Volume of Apparent Density	ASTM B873





*Accredited Laboratory*

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*Glendale Heights, IL*



*For the tests to which this accreditation applies, please refer to the laboratory's Mechanical Scope of Accreditation.*