



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELEMENT MATERIALS TECHNOLOGY DETROIT – WIXOM
51229 Century Court
Wixom, MI 48393-2074
Nicholas Piwowar Phone: 248 960 4900

MECHANICAL

Valid To: May 31, 2025

Certificate Number: 0098.07



Test Technology	Test Method(s)
Axial Strain Controlled Low Cycle Fatigue at Ambient and Elevated Temperatures (Up to 425 °C)	ASTM E606/E606M; GMW16704, GMW16705
Hardness	
Brinell (2.5 mm ball @ 62.5kgf & 187.5 kgf load, 5mm ball @ 150kgf & 750kg, 10 mm ball @ 500, 1000, 1500kgf & 3000 kgf load)	ASTM E10, ASTM A370, ASTM E140
Rockwell (A, B, C, E, F,)	ASTM E18, ASTM A370



<u>Test Technology</u>	<u>Test Method(s)</u>
Failure Analysis	Using the methods listed on this Scope and Scope 0098.08 in accordance with the ASM Handbook, Volume 11
Acceptability of Electronic Assemblies	IPC-A-610
Decarburization/Depth	SAE J419; ASTM E1077
<u>Other</u>	
Heat Treat	SOP TE-21
Surface Roughness (0.1 µin to 3 200 µin)	JIS B0601; DIN/ISO 4287, DIN/ISO 4288; ANSI B46.1
Etch Susceptibility of Stainless Steel	GMW15284
Gasoline Drip/Puddle Resistance	GMW14333
Oil Resistance	GMW14671
Cure (Solvent Rub)	GMW15891
<u>Environmental Exposure and Corrosion</u>	
Salt Spray (Fog)	ASTM B117; GMW14218P; GMW14722B; GMW14801; GMW14802; GMW14803; GMW14804; GMW14805; GMW14806; GMW14807; GMW14808; GMW14809; GMW14810; GMW14811; GMW14812; GMW14813; GMW14814; GMW14815; GMW14816; GMW14817; GMW14818; GMW14819; GMW14820; GMW14821; GMW14822; GMW14823; GMW14824; GMW14825; GMW14826; GMW14827; GMW14828; GMW14829; GMW14830; GMW14831; GMW14832; GMW14833; GMW14834; GMW14835; GMW14836; GMW14837; GMW14838; GMW14839; GMW14840; GMW14841; GMW14842; GMW14843; GMW14844; GMW14845; GMW14846; GMW14847; GMW14848; GMW14849; GMW14850; GMW14851; GMW14852; GMW14853; GMW14854; GMW14855; GMW14856; GMW14857; GMW14858; GMW14859; GMW14860; GMW14861; GMW14862; GMW14863; GMW14864; GMW14865; GMW14866; GMW14867; GMW14868; GMW14869; GMW14870; GMW14871; GMW14872; GMW14873; GMW14874; GMW14875; GMW14876; GMW14877; GMW14878; GMW14879; GMW14880; GMW14881; GMW14882; GMW14883; GMW14884; GMW14885; GMW14886; GMW14887; GMW14888; GMW14889; GMW14890; GMW14891; GMW14892; GMW14893; GMW14894; GMW14895; GMW14896; GMW14897; GMW14898; GMW14899; GMW14900; GMW14901; GMW14902; GMW14903; GMW14904; GMW14905; GMW14906; GMW14907; GMW14908; GMW14909; GMW14910; GMW14911; GMW14912; GMW14913; GMW14914; GMW14915; GMW14916; GMW14917; GMW14918; GMW14919; GMW14920; GMW14921; GMW14922; GMW14923; GMW14924; GMW14925; GMW14926; GMW14927; GMW14928; GMW14929; GMW14930; GMW14931; GMW14932; GMW14933; GMW14934; GMW14935; GMW14936; GMW14937; GMW14938; GMW14939; GMW14940; GMW14941; GMW14942; GMW14943; GMW14944; GMW14945; GMW14946; GMW14947; GMW14948; GMW14949; GMW14950; GMW14951; GMW14952; GMW14953; GMW14954; GMW14955; GMW14956; GMW14957; GMW14958; GMW14959; GMW14960; GMW14961; GMW14962; GMW14963; GMW14964; GMW14965; GMW14966; GMW14967; GMW14968; GMW14969; GMW14970; GMW14971; GMW14972; GMW14973; GMW14974; GMW14975; GMW14976; GMW14977; GMW14978; GMW14979; GMW14980; GMW14981; GMW14982; GMW14983; GMW14984; GMW14985; GMW14986; GMW14987; GMW14988; GMW14989; GMW14990; GMW14991; GMW14992; GMW14993; GMW14994; GMW14995; GMW14996; GMW14997; GMW14998; GMW14999; GMW15000





Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO -ILAC-IAF Communiqué dated April 2017).



Presented this 12th day of May 2023.

Mr. Trace McInturff, Vice President, Accreditation Services For the Accreditation

For the tests to which this accreditation applies, please refer to the laboratory's Mechanical

Scope of Accreditation.