

G.J. OLIVER, INC.
In-House & Field Inspection Services

Positive Material
Identification
(PMI)



Over 10 years of
PMI Experience

Certified PMI
Technicians

Radiation Safety
State Compliant



1 All Alloy

NAV Tools

Time 2.5 se

+ 9Cr+V (P91

Ele	%
Mo	0.987 0
Nb	0.079 0
Cu	0.168 0
Ni	0.252 0
Fe	89.31 0.
Cr	8.30 0.
V	0.245 0



G.J. OLIVER, INC.

EST. 1962



POSITIVE MATERIAL IDENTIFICATION (PMI)

PMI is the testing process that assures your project is built with exact materials of construction you require. We perform non-destructive chemical analysis of your materials by reading the quantities of percentage of its constituent elements.

5.41	5.95	5.90	6.49	6.40	7.06	6.93	7.65	7.48	8.28
Cr	Mn	Fe	Co	Ni					
Chromium 24	Manganese 25	Iron 26	Cobalt 27	Nickel 28					
0.57	0.58	0.64	0.65	0.70	0.72	0.78	0.79	0.85	0.87
17.48	19.61	18.41	20.59	19.28	21.66	20.21	22.72	21.18	23.82
Mo	Tc	Ru	Rh	Pd					
Molybdenum 42	Technetium 43	Ruthenium 44	Rhodium 45	Palladium 46					
2.29	2.40	2.42	2.54	2.56	2.68	2.70	2.83	2.84	2.99
59.31	67.23	61.13	69.30	62.99	71.40	64.89	73.55	66.82	75.74
W	Re	Os	Ir	Pt					
Tungsten 74	Rhenium 75	Osmium 76	Iridium 77	Platinum 78					
8.40	9.67	8.65	10.01	8.91	10.35	9.19	10.71	9.44	11.07



With materials that are globally manufactured, PMI has become a necessary NDT process in verifying quality materials toward construction. G.J. Oliver has incorporated this inspection as part of its Quality Control, and is able to provide customers the needed assurance whenever projects are manufactured at G.J. Oliver.

Our portable XRF analyzer (Niton XL3t), and certified technicians can also travel to your company's site for any immediate PMI needs. We will review any procedures, dictate any specifications, and supply a quality-controlled report, all within the required industry standards your company follows.

G.J. Oliver's own PMI procedures have been used by many major oil & energy companies in accordance to their needs, and we can assist in defining your quality requirements with our own professional PMI experts.

- RODS & WIRE STRANDS
- FINISHED WELDS & WELD BEADS
- HARDWARE
- VALVES & FLANGES
- COMPLETED VESSELS
- STAINLESS STEEL
- LOW ALLOY STEEL

- Immediately verify alloys
- Recover Lost material traceability
- Isolate finished welds to validate filler material and dilution
- Confirm the integrity of process piping, valves, and reaction vessels

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