

2025 Schedule - PTP Metallic scheme

14/10/2025 Version

A new version of this document is updated around the 1st and the 15th of each month

● Official Launch	14th January 2025
● Kit delivery	From 10th February 2025
● Result submission deadline	From 15th June 2025
● Individual publication	From 15th July 2025

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2025 Schedule - PTP Metallic scheme

Mechanical Testing - 5 year Plan

Section			Kit	Old name	Test	2024	2025	2026	2027	2028	2029
Mechanical testing	Quasi Statique	Traction	F-Tens-1	12-2	Tensile Strength		x		x		x
			F-Tens-2	12-4	Tensile Strength	x	x	x	x	x	x
			M-Tens-1	1-1	Tensile	x	x	x	x	x	x
			M-Tens-2	1-2	Tensile	x	x	x	x	x	x
			M-Tens-3	1-3	Tensile	x	x	x	x	x	x
			M-Tens-4	1-4	Tensile	x	x	x	x	x	x
			M-Tens-5	1-5	Tensile	x	x	x	x	x	x
			M-Tens-6	1-6	Tensile	x	x	x	x	x	x
		M-Tens-7	2-1	Elevated TemperatureTensile	x	x	x	x	x	x	
		Shear	F-Shear-1	12-7	Single shear	x	PP	x	x	x	x
			F-Shear-2	12-6	Double Shear	x	x	x	x	x	x
		Compression	M-Comp-1	11-2	Compression	x	x	x	x	x	x
		Bearing	M-Bear-1	11-1	Bearing		x		x		x
		Toughness	M-K1C-1	4-1	Fracture toughness - CT	x	x	x	x	x	x
			M-K1C-2	4-5	Fracture toughness - CT	x		x		x	
			M-J1C-1	New	Bending toughness		x	x	x	x	x
			M-CTOD-1	New	CTOD testing		x	x	x	x	x
		Creep and Stress rupture	M-Creep-1	3-1	Creep	x	x	x	x	x	x
			M-Rupt-1	3-2	Stress rupture	x	x	x	x	x	x
	Dynamic	Fatigue	F-Fatig-1	12-5	Tensile fatigue	x	x	x	x	x	x
			F-Fatig-2	9-5/12-8	SLS	PP	Canceled		x		x
			M-Fatig-1	9-1	Low Cycle Fatigue	x	x	x	x	x	x
			M-Fatig-2	9-2	High Cycle Fatigue		x		x		x
			M-Fatig-3	9-3	High Cycle Fatigue	x		x		x	
			M-Fatig-4	9-4	Rotative bending		Canceled		x		x
		Crack propagation	M-dadN-1	4-2	Crack propagation - dadN		x		x		x
			M-dadN-2	4-3	Crack propagation - dadN	x		x		x	
			M-RCurv-1	4-4	R Curve	x		x		x	
		Impact	M-Impact-1	5-1	Charpy test - KCV	x	x	x	x	x	x
			M-Impact-2	5-2	Charpy test - KCV	x	x	x	x	x	x
			M-Impact-3	5-3	Charpy test - IZOD	x	x	x	x	x	x
	Hardness	M-Hard-1	6-1	Rockwell C / Vickers Hardness	x	x	x	x	x	x	
		M-Hard-2	6-2	Brinell/Rockwell B Hardness	x	x	x	x	x	x	
		M-Hard-3	6-3	Carburized depth measurement	x	x	x	x	x	x	
		M-Hard-4	6-4	Rockwell/Brinell Hardness	x	x	x	x	x	x	
		M-Hard-5	6-5	Rockwell Y Hardness	x	x	x	x	x	x	

2025 Schedule - PTP Metallic scheme

Mechanical Testing - Schedule

Section		Kit	January	February	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.
Mechanical testing	Quasi Static	F-Tens-1	12-2	kit postponed to 2026 scheme										
		F-Tens-2	12-4											
		M-Tens-1	1-1											
		M-Tens-2	1-2											
		M-Tens-3	1-3											
		M-Tens-4	1-4											
		M-Tens-5	1-5											
		M-Tens-6	1-6											
		M-Tens-7	2-1											
		F-Shear-1	12-7	kit postponed to 2026 scheme										
		F-Shear-2	12-6											
		Compression	M-Comp-1	11-2										
		Bearing	M-Bear-1	11-1										
	Toughness	M-K1C-1	4-1											
		M-K1C-2	4-5											
		M-J1C-1	New											
		M-CTOD-1	New											
	Creep and Stress rupture	M-Creep-1	3-1											
		M-Rupt-1	3-2											
	Dynamic	F-Fatig-1	12-5											
		F-Fatig-2	9-5/12-8	kit canceled										
		M-Fatig-1	9-1											
		M-Fatig-2	9-2											
		M-Fatig-3	9-3											
		M-Fatig-4	9-4											
		M-dadN-1	4-2											
		M-dadN-2	4-3											
		M-RCurv-1	4-4											
	Impact	M-Impact-1	5-1											
		M-Impact-2	5-2											
		M-Impact-3	5-3											
	Hardness	M-Hard-1	6-1											
		M-Hard-2	6-2											
		M-Hard-3	6-3											
		M-Hard-4	6-4											
		M-Hard-5	6-5	kit postponed to 2026 scheme										

Fixed shipment

Fixed submission deadline

Fixed report publication

planned shipment

planned submission deadline

planned report publication

* Date of planned shipment/ submission deadline and report publication could be modified regarding materials supply

2025 Schedule - PTP Metallic scheme

Material Characterization - 5 year Plan

Section		Kit	Old name	Test	2024	2025	2026	2027	2028	2029
Material characterization	Chemistry	M-Chem-1	8-1	Chemistry - Aluminum base	x	x	x	x	x	x
		M-Chem-2	8-2	Chemistry - Nickel base	x	x	x	x	x	x
		M-Chem-3	8-3	Chemistry - Iron base	x	x	x	x	x	x
		M-Chem-4	8-4	Chemistry - Titanium base	x	x	x	x	x	x
		M-Chem-5	8-5	Chemistry - Cast material	PP	x	x	x	x	x
		M-Chem-6	8-6	Chemistry - Cobalt base	x	x	x	x	x	x
		M-Chem-7	8-7	Chemistry - Powder	x	x	x	x	x	x
		M-Chem-8	8-8	Chemistry - Cast Aluminum	x		x		x	
		M-Chem-9	8-9	Chemistry - Magnesium base	PP	Canceled	x	x	x	x
		M-Chem-10	8-10	Chemistry - copper base	x	x	x	x	x	x
	Metallography	M-Micr-1	10-1 Al	Grain size - Al	x	x	x	x	x	x
		M-Micr-2	10-1 Ni	Grain size - Ni	x	x	x	x	x	x
		M-Micr-3	10-1 Ti	Grain size - Ti	x	x	x	x	x	x
		M-Micr-4	10-1 fe	Grain size - Fe	x	x	x	x	x	x
		M-Micr-7	10-4	Inclusion rate	x		x	x	x	x
		M-Micr-8	10-5	Porosity rate	x	x	x	x	x	x
	Powder	M-Dens-1*	15-1	Apparent density	x	x	x	x	x	x
		M-Dens-2*	15-2	Tap density	x	x	x	x	x	x
		M-Flow-1*	15-3	Flow rate	x	x	x	x	x	x
		M-Psize-1*	15-4	Particle size - Laser method	x	x	x	x	x	x
		M-Psize-2*	15-5	Particle size - Sieve analysis	x	x	x	x	x	x
	Physical measurement	M-Elec-1	10-7	Conductivity	x	x	x	x	x	x

* These kits aren't covered by our Cofrac accreditation

2025 Schedule - PTP Metallic scheme

Material characterization - Schedule

Section			Kit	January	February	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.
Material characterization	Chemistry	M-Chem-1	8-1												
		M-Chem-2	8-2												
		M-Chem-3	8-3												
		M-Chem-4	8-4												
		M-Chem-5	8-5												
		M-Chem-6	8-6												
		M-Chem-7	8-7												
		M-Chem-8	8-8												
		M-Chem-9	8-9												
		M-Chem-10	8-10												
	Metallography	M-Micr-1	10-1 Al												
		M-Micr-2	10-1 Ni												
		M-Micr-3	10-1 Ti												
		M-Micr-4	10-1 fe												
		M-Micr-7	10-4												
		M-Micr-8	10-5												
	Powder	M-Dens-1*	15-1												
		M-Dens-2*	15-2												
		M-Flow-1*	15-3												
		M-Psize-1*	15-4												
		M-Psize-2*	15-5												
	Physical measurement	M-Elec-1	10-7												
		M-Elec-1-B2	10-7												

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2025 Schedule - PTP Metallic scheme

Material elaboration - Material degradation - 5 year Plan

Section	Kit	Old name	Test	2024	2025	2026	2027	2028	2029
Material Elaboration	Machining	M-Mach-1	14-1	Machining	x		x		x
		M-Mach-2	14-2	XRD	x		x		x
		M-ShotP-1	17-1	Shot peening	PP		x		x
		M-Micr-9	10-6	Welding	x	x	x	x	x
	Coatings	F-Coat-1	12-3	Thickness on Fasteners		x		x	
		M-Coat-1	10-8	Thickness - Micro + Eddy current	x	x	x	x	x
		M-Coat-2	10-9	Adhesion - cross cut area	x	x	x	x	x
		M-Coat-3	10-10	Thickness - Nickel plating	x	x	x	x	x
		M-ProjT-1*	-	Projection plasma spray - Metallographic analysis	x	x	x	x	x
	Surface treatment	M-Chem-11*	16-1	Surface treatment bath chemistry		x		x	

Section	Kit	Old name	Test	2024	2025	2026	2027	2028	2029
Material degradation	Corrosion	M-Corr-1	7-1	Salt spray	x	x	x	x	x
		M-Corr-2	7-2	Salt spray	x	x	x	x	x
		M-Corr-3	7-3	Stress corrosion	x		x		
		M-Corr-4*	New	Pitting and crevice corrosion test on Duplex stainless steel		x	x	x	x
		M-Corr-5*	New	Pitting and crevice corrosion test on Duplex stainless steel		x	x	x	x
		M-Corr-6*	New	Intermetallic phase in duplex stainless steel		x	x	x	x
		M-Corr-7*	New	Intergranular corrosion		x	x	x	x
		M-Corr-8*	New	Intergranular corrosion		x	x	x	x
		M-Corr-9*	New	Susceptibility to intergranular Attack in austenitic Stainless steel		x	x	x	x
		M-Corr-10*	New	Susceptibility to intergranular Attack in austenitic Stainless steel		x	x	x	x
		M-Corr-11*	New	Susceptibility to intergranular Attack in austenitic Stainless steel		x	x	x	x
	Degradation	M-Micr-5	10-2	Alpha case depth determination	x	x	x	x	x
		M-Micr-6	10-3	Alloy depletion	x	x	x	x	x
		M-Embr-1	3-3	Hydrogen embrittlement		x		x	

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Material elaboration - Material degradation - Schedule

Section	Kit	January	February	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.
Material Elaboration	Machining	M-Mach-1	14-1										
		M-Mach-2	14-2										
		M-ShotP-1	17-1										
		M-Micr-9	10-6										
	Coatings	F-Coat-1	12-3										
		M-Coat-1	10-8										
		M-Coat-1-B2	10-8										
		M-Coat-2	10-9										
		M-Coat-3	10-10										
		M-Projt-1*	-										
	Surface treatment	M-Chem-11*	16-1										

Section	Kit	January	February	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.
Material degradation	Corrosion	M-Corr-1	7-1										
		M-Corr-2	7-2										
		M-Corr-3	7-3										
		M-Corr-4*	New										
		M-Corr-5*	New										
		M-Corr-6*	New										
		M-Corr-7*	New										
		M-Corr-8*	New										
		M-Corr-9*	New										
		M-Corr-10*	New										
		M-Corr-11*	New										
	Degradation	M-Micr-5	10-2										
		M-Micr-6	10-3										
		M-Micr-6-B2	10-3										
		M-Embr-1	3-3										

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