

Table 4a. Phase 4 Refinables project: First batch of T/D work - 21 Jan 2010

Group	Name	EC and CAS numbers	Phase 4a: Batch 1 of Transformation/Dissolution (T/D) 24 h screening tests (performed by COMPLETE)										Comment
			N° of samples	Name	Description of sample(s)	Sample providers	Sample quantities	Reserve sample storage	Sample preparation	Sample submission	Test start - end	Sample storage	
1	Doré	273-793-6; 69029-47-6	2	Pure	Pure doré	Aurubis	TBA	TBA	Collect from molten form; COMPLETE	TBC	End Feb - End Mar	TBC kg of the same batch should be stored in-house for a minimum of two years	T/D run in parallel with speciation work (cf. Table 1)
				Impure	Impure doré containing Ag, Cd, Pb, Ni	Aurubis?							
2	Matte, PM refining	308-506-6; 98072-52-7	2	Fresh	Fresh matte containing Ni, As, Cr, Co	Umicore	TBA	TBA	COMPLETE	TBC	End Feb - End Mar	TBC kg of the same batch should be stored in-house for a minimum of two years	T/D run in parallel with speciation work (cf. Table 1)
				Aged	Aged matte containing Ni, As, Cr, Co	Umicore							
3	Slags, PM refining	308-515-5; 98072-60-7	3	Borate-type	Borate-type slag containing Cu, As, Pb, Ni, Zn	Umicore	TBA	TBA	COMPLETE	TBC	End Feb - End Mar	TBC kg of the same batch should be stored in-house for a minimum of two years	T/D run in parallel with speciation work (cf. Table 1)
				Phosphate-type	Phosphate-type slag containing Cu, As, Pb, Ni, Zn	Britannia Refined Metals							
				Silicate-type	Silicate-type slag containing Cu, As, Pb, Ni, Zn	Umicore							
4	Slimes and sludges, PM refining	308-516-0; 98072-61-8	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Depending on outcome of Members' evaluation of their materials and the corresponding classification scenario, T/D 24 h screening test may be conducted on some samples to refine the proposed classification. This means that only where there is a sound suspicion that the PMC recommended classification is not suitable (and worse than expected), a T/D test will be performed to confirm this suspicion. This may end up in an additional PMC classification recommendation applicable to a specific grade or composition. Aurubis recommends for a gold metal-rich Au electrolysis slime to be tested as one of the possible "classification exceptions".
5.1	Matte leaching residue	310-050-8; 102110-49-6	0	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A	
5.2	Speiss leaching residue	309-643-4; 100656-54-0	0	Speiss leaching residue	Speiss leaching residue containing Ni, Pb, As	Umicore	TBA	TBA	COMPLETE	TBC	TBC	TBC kg of the same batch should be stored in-house for a minimum of two years	TBC after speciation results, if these indicate absence of sulphates
6.1	Ag electrolyte	New (from 308-516-0; 98072-61-8)	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
6.2	Au electrolyte	New (from 308-516-0; 98072-61-8)	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
7	Flue dust, PM refining	308-496-3; 98072-44-7	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Depending on outcome of Members' evaluation of their materials and the corresponding classification scenario, T/D 24 h screening test may be conducted on some samples to refine the proposed classification. This means that only where there is a sound suspicion that the PMC recommended classification is not suitable (and worse than expected), a T/D test will be performed to confirm this suspicion. This may end up in an additional PMC classification recommendation applicable to a specific grade or composition.
8	Residues cementation and reduction, PM refining	310-051-3; 102110-50-9	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Depending on outcome of Members' evaluation of their materials and the corresponding classification scenario, T/D 24 h screening test may be conducted on some samples to refine the proposed classification. This means that only where there is a sound suspicion that the PMC recommended classification is not suitable (and worse than expected), a T/D test will be performed to confirm this suspicion. This may end up in an additional PMC classification recommendation applicable to a specific grade or composition.
9.1	Materials for reclaim, PM with or without support	New (from 308-526-5; 98072-70-9)	4	PM without support	Concentrate with Pb, Ni	Johnson Matthey	TBA	TBA	Granulated; COMPLETE	TBC	End Feb - End Mar	TBC kg of the same batch should be stored in-house	
				PM with ceramic support	Spent catalyst with Pb, Ni	Johnson Matthey							
				PM with carbon support	(Activated) carbon with Pb, Ni	Johnson Matthey?							
				PM with metallic support	PM scrap with Pb, Ni	Johnson Matthey							
9.2	Materials for reclaim, PM on bricks, crucibles, trays, etc.	New (from 308-526-5; 98072-70-9)	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Depending on outcome of Members' evaluation of their materials and the corresponding classification scenario, T/D 24 h screening test may be conducted on some samples to refine the proposed classification. This means that only where there is a sound suspicion that the PMC recommended classification is not suitable (and worse than expected), a T/D test will be performed to confirm this suspicion. This may end up in an additional PMC classification recommendation applicable to a specific grade or composition.
9.3	Materials for reclaim, PM production by-products	New (from 308-526-5; 98072-70-9)	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Depending on outcome of Members' evaluation of their materials and the corresponding classification scenario, T/D 24 h screening test may be conducted on some samples to refine the proposed classification. This means that only where there is a sound suspicion that the PMC recommended classification is not suitable (and worse than expected), a T/D test will be performed to confirm this suspicion. This may end up in an additional PMC classification recommendation applicable to a specific grade or composition.
10	Lead bullion, precious metal rich	New (from 308-011-5; 97808-88-3)	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Pb Consortium will be contacted to share experiences, views and recommendations on T/D and read-across work. In the event T/D or other (bio-)elution work has already been performed, data-sharing will be promoted.
TOTAL			11										

If limited test house capacity:

- Priority 1 for testing
- Priority 2 for testing
- Priority 3 for testing