

Good Practice Sheet for Uses of Chromates

Overview Table of Good Practice Sheets for Chromates and Chromium Trioxide applied Uses

	Activity - Good Practice Sheets	Substance 1 (S1) Applied Use Group						Substance ¹									
		1	2	3	4	5	6	1	2	3	4a	4b	6	7	8	*	**
		1	2	3	4	5	6	S1	S2	S3	S4	S4-tin	S6	S7	S8	S2-4	S6-8
A1	Formulation – addition of solid chromates to mixtures	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
A2	Formulation – addition of liquid chromates to mixtures	*	*	*	*	*	*	*	✓	✓	✓	✓	*	*	*	✓	*
B1	Chromium plating operations in closed reactor cells	*	✓	✓	*	*	*	✓	*	*	*	*	*	*	*	*	*
B2	Chromium plating operations in covered tanks or baths	*	✓	✓	*	*	*	✓	*	*	*	*	*	*	*	*	*
B3	Chromium plating operations in tanks or baths in an enclosed chamber and automated loading to bath	*	✓	✓	*	*	*	✓	*	*	*	*	*	*	*	*	*
B4	Chromium plating operations in tanks or baths in a segregated area and automated loading to bath	*	✓	✓	*	*	*	✓	*	*	*	*	*	*	*	*	*
B5	Chromium plating operations in open tanks or baths with automated loading to bath	*	✓	✓	*	*	*	✓	*	*	*	*	*	*	*	*	*
B6	Chromium plating operations in an open tank or bath with semi-automated loading to bath	*	✓	✓	*	*	*	✓	*	*	*	*	*	*	*	*	*
B7	Chromium plating operations in an open tank with manual loading to bath	*	✓	✓	*	*	*	✓	*	*	*	*	*	*	*	*	*
C1	Surface treatment with chromates in open tanks or baths (e.g. passivation, conversion coating, anodize seal) without electric current	*	*	*	✓	✓	*	✓	✓	✓	✓	*	*	*	*	*	*
C2	Surface treatment with chromates by spray application in a cabin (automated)	*	*	*	✓	✓	*	✓	✓	✓	✓	*	*	*	*	*	*
C3	Surface treatment with chromates by spray application in a cabin (manual)	*	*	*	✓	✓	*	✓	*	*	*	*	✓	✓	✓	*	*
C4	Surface treatment with chromates by spray application outside a cabin	*	*	*	✓	✓	*	✓	*	*	*	*	✓	✓	✓	*	*
C5	Surface treatment with chromates by touch-up with a pen or small brushes	*	*	*	✓	*	*	✓	*	*	*	*	✓	✓	✓	*	*
C6	Passivation of Tin Plated Steel (ETP) and Electrolytic Chromium Coated Steel (ECCS) process	*	*	*	*	*	✓	✓	*	*	*	✓	*	*	*	*	*
C7	Anodizing operations in an open tank with manual loading to bath with electric current	*	*	*	✓	*	*	*	✓	✓	✓	*	*	*	*	*	*
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		1	2	3	4	5	6	S1	S2	S3	S4	S4-tin	S6	S7	S8	S2-4	S6-8
C8	Surface treatment with chromium trioxide by touch-up with brush using electric current applied to the system	.	.	.	✓	.	.	✓
C9	Surface treatment with chromates by spray application in a purpose designed room	.	.	.	.	.	.	.	.	.	.	✓	✓	✓	.	.
C10	Surface treatment with chromates by brushing	.	.	.	.	.	.	.	.	.	.	✓	✓	✓	.	.
C11	Surface treatment with chromates by brushing with electric current	.	.	.	.	.	.	.	✓	✓	✓	.	.	.	.	.
C12	Machining activities of chromated parts (following immersion/bath application of surface treatment containing chromate) (S2-4)	.	.	.	.	.	.	.	✓	✓	✓	.	.	.	.	.
C13	Machining of parts (following application of primers or coatings containing chromates) (S6-8)	.	.	.	.	.	.	.	.	.	.	✓	✓	✓	.	.
C14	Decanting, mixing and filling of guns, cups or small containers with mixtures containing chromates	.	.	.	.	.	.	.	.	.	.	✓	✓	✓	.	.
C15	Decanting / mixing of aqueous/solvent solutions	.	.	.	.	.	.	.	✓	✓	✓	✓	.	.	.	✓
C16	Decanting / mixing and weighing of solids	.	.	.	.	.	.	.	✓	✓	✓	✓	.	.	.	✓
D1	Storage and handling of closed containers	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
D2	Sampling	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	.	.	.	✓	
D3	Adjustment of plating or treatment baths with chromates	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	.	.	.	.
D4	Maintenance, repair and installation related to the existing process line when the equipment contains chromates	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
D5	Maintenance, repair and installation related to the existing process line when the bath, vessel or equipment is empty	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	.	.	.	✓	
D6	Cleaning of spills or releases	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
D7	On-site wastewater treatment	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
D8	Solid waste management	✓	✓	✓	✓	✓	✓	✓	✓	
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D9	Cleaning of spray equipment after use	✓	✓	✓	.	.
D10	Infrequent maintenance and repair of filters from paint shops, paint cabins, or extracted benches, but also maintenance of tools contaminated with chrome dust	✓	✓	✓	.	.
E1bis	Selecting and applying Risk Management Measures	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
E2bis	Implementing and Reporting Worker Exposure Monitoring	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
E3bis	Implementing and Reporting Environmental Monitoring	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
E4bis	Health Hazards of Hexavalent Chromium (former E6)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	.	.

Substances:

No.	Description
1	Chromium Trioxide
2	Dichromium tris chromate
3	Potassium dichromate
4a	Sodium dichromate
4b	Sodium dichromate (tin)
6	Strontium chromate
7	Pentazincchromate octahydroxide
8	Potassium hydroxyoctaoxodizincate-dichromate
*	Formulation S2-4
**	Formulation S6-8

Applied for Use Group:

No.	Description
1	Formulation of mixtures
2	Functional Chrome Plating
3	Functional chrome plating with decorative character
4	Surface treatment for applications in the aeronautics and aerospace industries, unrelated to Functional chrome plating or Functional chrome plating with decorative character
5	Surface treatment (except passivation of tin-plated steel (ETP)) for applications in various industry sectors namely architectural, automotive, metal manufacturing and finishing, and general engineering (unrelated to Functional chrome plating or Functional chrome plating with decorative character)
6	Passivation of tin-plated steel (ETP)