

# MUREX Welding Consumables

Table 1 Fume analysis for MMA Electrodes where control of total welding fume to 5mg/m<sup>3</sup> will ensure that no constituent of the fume will exceed its own recommended limit.

Electrode	Fume Analysis (wt %)						
	Fe	Mn	Ni	Cr	Cu	Pb	F
Castcraft*	2	0.2	2.5	0.1	0.1	0.1	5
Celtian	40	3.5	0.1	<0.1	0.2	0.1	-
Cinex	2	0.2	2.5	0.1	<0.1	0.1	5
Fastex 5	30	5	0.1	<0.1	0.1	0.1	-
Ferex Super	19	3.5	<0.1	<0.1	<0.1	0.1	18
Ferex Universal	21	7	<0.1	<0.1	0.1	0.3	10
Ferex 7016	12	5	<0.1	0.1	<0.1	0.1	13
Ferex 7016-1Ni	7	4	0.2	<0.1	<0.1	0.2	12
Ferex 7018LT	20	5	0.1	<0.1	<0.1	0.4	18
Ferroid 1	2	0.4	1	0.1	2	0.1	5
Ferroid 3	3	0.4	1.5	0.1	<0.1	0.1	5
Ferromax	28	5	0.1	0.1	<0.1	0.2	4
Fortrex NQ1	8	5	0.1	<0.1	<0.1	0.1	9
Fortrex NQ2	7	6	0.1	<0.1	<0.1	0.1	8
Fortrex 7018	13	6	0.2	<0.1	0.1	0.4	16
Fortrex 8018-C1	15	3.5	0.1	<0.1	<0.1	0.1	14
Gravitex	27	7	<0.1	<0.1	<0.1	0.1	-
Groovex	31	16	<0.1	<0.1	<0.1	<0.1	-
Hi-Trex 7016-C1L	8	3	0.1	<0.1	<0.1	0.6	14
Hi-Trex 8016G	17	9	0.1	<0.1	<0.1	0.2	5
Mirrospeed	30	7	0.1	<0.1	0.1	0.1	-
Murex Ferrospeed*	32	6	<0.1	<0.1	<0.1	<0.1	-
Murex 6010*	54	6	<0.1	<0.1	<0.1	0.3	-
Murex 6013*	35	5	<0.1	<0.1	<0.1	<0.1	-
Murex 7010 A1*	57	5	<0.1	<0.1	0.2	<0.1	-
Murex 7010 G*	40	6	0.1	<0.1	<0.1	<0.1	-
Murex 8010*	42	8	0.2	<0.1	<0.1	<0.1	-
Satinex	27	7	<0.1	<0.1	0.1	<0.1	-
Super Fastex	21	5	<0.1	<0.1	<0.1	<0.1	-
Vodex	35	5	<0.1	<0.1	0.1	0.1	-
Vortic Marine	40	5	0.1	0.1	0.1	0.1	-
Zodian Super	30	6	0.1	<0.1	0.1	<0.1	-
Zodian Universal	30	7	0.1	<0.1	0.1	0.1	-

\* Denotes information has changed since last issued.

# ESAB Welding Consumables

**Table 1** Fume analysis for MMA Electrodes where control of total welding fume to 5mg/m<sup>3</sup> will ensure that no constituent of the fume will exceed its own recommended limit.

Electrode	Fume Analysis (wt %)							
	Fe	Mn	Ni	Cr	Cu	Pb	F	Al
OK 21.03 Cutmat	31	16	<0.1	<0.1	<0.1	<0.1	-	-
OK 33.80 Femax	30	7	<0.1	<0.1	<0.1	<0.1	-	-
OK 43.23 Smoothtrode	20	9	0.1	0.1	0.1	<0.1	-	-
OK 43.24 Silkmat	24	7	<0.1	<0.1	<0.1	<0.1	-	-
OK 46.00 Mildtrode	35	5	<0.1	<0.1	<0.1	<0.1	-	-
OK 46.68 Versimat	27	7	<0.1	<0.1	0.1	0.1	-	-
OK 48.00 Unitrode	19	4	<0.1	<0.1	<0.1	<0.1	18	-
OK 48.04 Unitrode	23	5	<0.1	<0.1	<0.1	<0.1	18	-
OK 53.08 Hytuf 1Ni	9	5	0.1	<0.1	<0.1	0.2	7	-
OK 49.20 Losilmat	22	12	<0.1	<0.1	0.1	0.2	-	-
OK 53.88 Hytrode	7	4	<0.1	<0.1	<0.1	0.3	15	-
OK 55.00 Tensitrode	17	5	<0.1	<0.1	<0.1	<0.1	20	-
OK 73.08	22	5	<0.1	<0.1	0.6	<0.1	18	-
OK 73.69 8018-C1	18	3	0.3	<0.1	<0.1	<0.1	17	-
OK 74.56 Molytrode	20	4	<0.1	<0.1	<0.1	<0.1	18	-
OK 74.78 Tensitrode	13	6	<0.1	<0.1	<0.1	<0.1	20	-
OK 74.86 Tensitrode	18	7	0.1	0.1	<0.1	<0.1	20	-
OK 75.65	19	4	0.2	<0.1	<0.1	<0.1	19	-
OK 75.75	16	6	0.2	0.1	<0.1	<0.1	21	-
OK 75.78 Tensitrode	13	5	0.2	0.3	<0.1	0.2	14	-
OK 76.19 Chromotrode	19	6	0.1	0.3	<0.1	0.4	7	-
OK 76.28 Chromotrode	18	4	<0.1	0.6	<0.1	<0.1	20	-
OK 78.12	17	7	0.4	<0.1	<0.1	<0.1	13	-
OK 92.18 Castmat Ni	2	0.2	2.5	0.1	0.1	0.1	5	-
OK 92.58 Castmat NiFe	3	0.4	1.5	0.1	2	0.1	5	-
OK 92.78 Castmat NiCu	2	1.4	1	0.1	2	0.1	5	-
OK 96.50 Almintrode	0.1	0.1	<0.1	<0.1	<0.1	<0.1	20	21

# MUREX

**Table 3** Fume analysis for MMA Electrodes where the fume contains hexavalent chromium compounds for which a long term exposure limit of 0.05mg/m<sup>3</sup> is included in Guidance Note EH40.

Fume Analysis (wt %)							
Electrode	Fe	Mn	Ni	Cr	Cu	Pb	F
Armex 2	18	9	2	8	0.2	0.2	6
Armex 2PR	5	2	0.5	5	<0.1	<0.1	3
Armoid 1	12	6	1	4	0.1	0.1	11
Cobalarc 1A*	12	2	0.1	2	<0.1	0.1	11
Hardcraft*	30	6	<0.1	1.8	<0.1	<0.1	-
Hardex 350	38	8	0.1	2	<0.1	<0.1	-
Hardex 650	39	9	0.1	2.5	<0.1	<0.1	-
Hardex 650B	25	4	0.1	2	<0.1	0.1	14
Hardex 800	27	2.5	0.1	3	<0.1	0.1	9
Hardex MnP	8	11	0.5	8	0.1	0.3	8
Nicrex E308L	6	3	0.4	5	<0.1	0.1	4
Nicrex E309L*	3	3	0.5	6	<0.1	<0.1	14
Nicrex E309MoL	5	4	1	7	0.1	0.1	16
Nicrex E312	12	12	1.5	12.5	<0.1	0.1	10
Nicrex E316L	6	3	0.6	4	<0.1	0.1	7
Nicrex E347	6	2	0.4	5	<0.1	0.1	5
Nicrex UE1*	8	13	0.5	3.5	0.1	0.3	-
Nicrex 1	12	8	2	7	0.1	0.3	20
Weldall*	4	3	0.3	5	0.1	0.3	-

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