COVERED ELECTRODES FOR MILD AND FINE GRAINED STEEL

Product name	Chemical composition (typical values) in %					AWS		EN/ISO	
	C	Mn	Si	P	S				
Fleetweld® 5P+	0.15	0.50	0.25	-	-	A5.1	E6010	ISO 2560-A	E 42 3 C 25
Supra®	0.12	0.5	0.6	-	-	A5.1	E6012	ISO 2560-A	E 38 0 RC 11
Panta®	0.07	0.5	0.5	-	-	A5.1	E6013	ISO 2560-A	E 42 0 RC 11
Pantafix	0.09	0.5	0.4	-	-	A5.1	E6013	ISO 2560-A	E 38 0 RC 11
Omnia®	0.07	0.5	0.5	-	-	A5.1	E6013	ISO 2560-A	E 42 0 RC 11
Omnia® 46	0.06	0.5	0.45	-	-	A5.1	E6013	ISO 2560-A	E 42 0 RC 11
Omnia® 46+	0.08	0.5	0.3	-	-	A5.1	E6013	ISO 2560-A	E 42 0 RC 11
Cumulo®	0.1	0.5	0.4	-	-	A5.1	E6013	ISO 2560-A	E 38 0 R 12
Universalis®	0.1	0.6	0.4	-	-	A5.1	E6013	ISO 2560-A	E 42 0 RR 12
Ferrod 165A	0.07	0.95	0.3	-	-	A5.1	E7024-1	ISO 2560-A	E 42 2 RA 73
Ferrod 135T	0.08	0.5	0.35	-	-	A5.1	E7024	ISO 2560-A	E 38 0 RR 53
Ferrod 160T	0.07	0.9	0.6	-	-	A5.1	E7024	ISO 2560-A	E 42 0 RR 73
Gonia 180	0.07	1.0	0.35	-	-	A5.1	E7024	ISO 2560-A	E 42 0 RR 73
Baso® 48 SP	0.075	1.4	0.65	-	-	A5.1	E7018-1 H8	ISO 2560-A	E 46 3 B 32 H10*
Baso® 49	0.09	1.1	0.6	-	-	A5.1	E7018 H4	ISO 2560-A	E 46 3 B 32 H5
Baso® 51P	0.06	1.3	0.5	0.015	0.01	A5.1	E7018-1	ISO 2560-A	E 46 3 B 32 H5
Baso® 100	0.08	1.0	0.5	-	-	A5.1	E7016 H4R	ISO 2560-A	E 42 3 B 12 H5
Baso® 120	0.08	1.2	0.5	-	-	A5.1	E7018 H4R	ISO 2560-A	E 42 3 B 32 H5
Basic® One	0.05	1.3	0.4	-	-	A5.1	E7018 H8	ISO 2560-A	E 42 4 B 42 H5
Baso® G	0.05	1.3	0.4	-	-	A5.1	E7018-1 H4R	ISO 2560-A	E 42 5 B 32 H5
Baso® 26V	0.09	1.1	0.7	-	-	A5.1	E 7048 H8	ISO 2560-A	E 42 3 B 15 H10
Conarc® 48	0.05	1.3	0.3	-	-	A5.1	E7018-1 H4R	ISO 2560-A	E 46 4 B 42 H5
Conarc® 49	0.09	1.1	0.6	0.015	0.010	A5.1	E7018 H4R	ISO 2560-A	E 46 3 B 32 H5
Conarc® 49C	0.06	1.4	0.3	0.015	0.010	A5.1	E7018-1 H4R	ISO 2560-A	E 46 4 B 32 H5
Conarc® One	0.05	1.3	0.4	-	-	A5.1	E7018-1 H4R	ISO 2560-A	E 42 5 B 32 H5
Conarc® 51	0.06	1.4	0.5	0.015	0.010	A5.1	E7016-1 H4R	ISO 2560-A	E 42 4 B 12 H5
Conarc® 52	0.06	1.2	0.4	0.010	0.020	A5.1	E7016 H4	ISO 2560-A	E 42 3 B 12 H5
Conarc® 53	0.06	1.3	0.4	0.018	0.010	A5.1	E7016-1	ISO 2560-A	E 42 5 B 12 H5
LINCOLN® 7018-1	0.05	1.0	0.3	-	-	A5.1	E7018-1	ISO 2560-A	E 42 4 B 22 H5
Conarc® L150	0.07	0.95	0.4	-	-	A5.1	E7028 H4R	ISO 2560-A	E 42 2 B 53 H5
Conarc® V180	0.08	1.2	0.3	-	-	A5.1	E7028 H4R	ISO 2560-A	E 42 4 B 73 H5
Conarc® V250	0.08	1.3	0.45	-	-	A5.1	E7028 H4R	ISO 2560-A	E 42 4 B 73 H5
Kardo®	0.03	0.4	0.25	-	-	A5.1	E6018 [1)]	ISO 2560-A	E 35 2 B 32 H5

[1)] according classification 1966

* also complies to E 46 3 BR 32 H10

COVERED ELECTRODES FOR LOW ALLOY STEEL (HIGH YIELD, LOW TEMPERATURE AND CREEP RESISTANT STEEL)

Product	Chemical composition (typical values) in %												AWS		EN/ISO	
	C	Mn	Si	Ni	Cr	Mo	Cu	V	Nb	N	P	S				
Shield Arc® HYP+	0.12	0.40	0.15	-	-	0.50	-	0.01	-	-	-	-	A5.5	E 7010-P1	ISO 2560-A	E 42 2 Mo C 25*
Shield Arc® 70+	0.12	0.90	0.20	0.85	0.10	-	-	0.03	-	-	0.012	0.013	A5.5	E8010-G	ISO 2560-A	E 46 4 1Ni C 25
Shield Arc® 90	0.13	0.60	0.15	0.7	-	0.6	-	-	-	-	-	-	A5.5	E 9010-G	ISO 2560-A	E 50 4 1NiMo C 25
Shield Arc® 6P+	0.11	0.55	0.18	-	-	-	-	-	-	-	0.009	0.009	A5.1	E6010	ISO 2560-A	E 42 3 C 25
Shield Arc® 7P+	0.12-0.23	0.5-0.9	0.14-0.32	0.62-0.95	-	0.12-0.3	-	-	-	-	0.015	0.015	A5.5	E7010-P1/E7010-G	ISO 2560-A	E 42 3 Z C 25
Shield Arc® 8P+	0.17	0.7	0.25	0.8	0.2	0.2	-	-	-	-	0.01	0.01	A5.5	E8010-P1	ISO 2560-A	E 46 4 1Ni C 25
Conarc® 55CT	0.05	1.5	0.4	0.9	-	-	0.4	-	-	-	0.010	0.015	A5.5	E8018-W2-H4R [1]	ISO 2560-A	E 46 5 Mn1Ni B 32 H5
Conarc® 60G	0.06	1.0	0.4	1.6	-	0.3	-	-	-	-	0.015	0.010	A5.5	E9018M-H4	EN 757	E 55 4 Z B 32 H5
Conarc® 70G	0.06	1.2	0.4	1.0	-	0.4	-	-	-	-	0.014	0.009	A5.5	E9018-G-H4	EN 757	E 55 4 1NiMo B 32 H5
Conarc® 74	0.05	1.5	0.5	0.95	-	-	-	-	-	-	0.010	0.005	A5.5	E8018-G	ISO 2560-A	E 50 6 1Mn1Ni B 32 H5
Conarc® 80	0.06	1.5	0.4	2.2	-	0.4	-	-	-	-	0.015	0.01	A5.5	E11018M-H4	EN 757	E 69 5 Z B 32 H5
Conarc® 85	0.06	1.4 6	0.3	2.0	0.4	0.4	-	-	-	-	0.01	0.01	A5.5	E12018-G-H4R	EN 757	E 69 5 Mn2NiCrMo B 32 H5
Kryo® 1	0.05	1.5	0.4	0.9	-	-	-	-	-	-	0.01	0.01	A5.5	E7018-G-H4R[2]	ISO 2560-A	E 50 6 Mn1Ni B 32 H5
Kryo® 1N	0.07	1.7	0.5	0.9	-	-	-	-	-	-	0.02	0.005	A5.5	E8016-G-H4R	ISO 2560-A	E 50 6 Mn1Ni B 12 H5
Kryo® 1P	0.05	1.5	0.5	0.95	-	-	-	-	-	-	0.010	0.005	A5.5	E 8018-G-H4R	ISO 2560-A	E 50 6 Mn1Ni B 32 H5
Kryo® 1-180	0.07	1.2	0.3	0.9	-	-	-	-	-	-	0.020	0.010	A5.5	E 8018-G-H4R	ISO 2560-A	E 50 5 1Ni B 73 H5
Kryo® 2	0.05	1.6	0.3	1.5	-	-	-	-	-	-	0.015	0.01	A5.5	E9018-G-H4R	EN 757	E 55 6 Z B 32 H5
Kryo® 3	0.05	0.7	0.3	2.5	-	-	-	-	-	-	0.015	0.010	A5.5	E8018-C1-H4	ISO 2560-A	E 46 8 3Ni B 32 H5
Kryo® 4	0.03	0.6	0.4	3.6	-	-	-	-	-	-	0.010	0.005	A5.5	E7016-C2L-H4R	ISO 2560-A	E 38 8 3Ni B 32 H5
SL®12G	0.05	0.8	0.6	-	-	0.55	-	-	-	-	0.02	0.01	A5.5	E7018-A1-H4R	EN 1599	E Mo B 32 H5
SL®19G	0.06	0.75	0.6	-	1.1	0.5	-	-	-	-	0.015	0.01	A5.5	E8018-B2-H4	EN 1599	E CrMo1 B 32 H5
SL®19G(STC)	0.06	0.7	0.35	-	1.2	0.55	-	-	-	-	0.010	0.010	A5.5	E8018-B2-H4	EN 1599	E CrMo1 B 32 H5
SL®20G	0.06	0.8	0.6	-	2.3	1.0	-	-	-	-	0.015	0.01	A5.5	E9018-B3-H4	EN 1599	E CrMo2 B 32 H5
SL®20G(STC)	0.10	0.6	0.35	-	2.3	1.0	-	-	-	-	0.01	0.01	A5.5	E9018-B3-H4	EN 1599	E CrMo2 B 32 H 5
SL®22G	0.06	0.8	0.6	-	0.5	0.5	-	0.3	-	-	0.02	0.01	A5.5	E8018-B1-H4	EN 1599	E Z B 32 H5
SL®502	0.07	0.8	0.6	-	5.3	0.6	-	-	-	-	0.020	0.010	A5.5	E8018-B6-H4R	EN 1599	E CrMo5 B 32 H5
SL®9Cr(P91)	0.09	0.6	0.2	0.6	9.0	1.0	-	0.2	0.04	0.04	0.010	0.010	A5.5	E9016-B9-H4	EN 1599	E CrMo91 B 32 H5

[1] For deviations, consult datasheet
[2] meet also AWS A5.5: E8018-G-H4R

COVERED ELECTRODES FOR STAINLESS AND HEAT RESISTANT STEEL

Product name	Chemical composition (typical values) in %										AWS		EN/ISO	
	C	Mn	Si	Cr	Ni	Mo	Nb	Cu	N	W				
Arosta® 304L	0.02	0.80	0.80	19.5	9.7	-	-	-	-	-	A5.4	E308L-16	EN 1600	E 19 9 L R 12
Limarosta® 304L	0.025	0.75	0.95	19.0	9.7	-	-	-	-	-	A5.4	E308L-17	EN 1600	E 19 9 L R 12
Vertarosta® 304L	0.02	0.8	0.7	20.0	9.8	-	-	-	-	-	A5.4	E308L-15	EN 1600	E 19 9 L R 21
Jungo® 304L	0.025	1.8	0.4	19.0	10.0	-	-	-	-	-	A5.4	E308L-15	EN 1600	E 19 9 L B 22
Limarosta® 304L-130	0.02	0.6	0.9	19.0	10.0	-	-	-	-	-	A5.4	E308L-17	EN 1600	E 19 9 L R 53
Arosta® 347	0.03	0.8	0.8	19.5	9.8	-	0.35	-	-	-	A5.4	E347-16	EN 1600	E 19 9 Nb R 12
Jungo® 347	0.02	1.6	0.5	20.0	10.0	-	0.40	-	-	-	A5.4	E347-15	EN 1600	E 19 9 Nb B 22
Arosta® 316L	0.02	0.8	0.8	18.0	11.5	2.85	-	-	-	-	A5.4	E316L-16	EN 1600	E 19 12 3 L R 12
Arosta® 316LP	0.02	0.7	0.85	18.1	11.5	2.85	-	-	-	-	A5.4	E316L-16	EN 1600	E 19 12 3 L R 12
Limarosta® 316L	0.02	0.8	1.0	18.0	11.5	2.8	-	-	-	-	A5.4	E316L-17	EN 1600	E 19 12 3 L R 12
Vertarosta® 316L	0.02	0.7	0.85	18.0	11.5	2.8	-	-	-	-	A5.4	E316L-15	EN 1600	E 19 12 3 L R 21
Jungo® 316L	0.025	1.6	0.4	18.5	11.0	2.7	-	-	-	-	A5.4	E316L-15	EN 1600	E 19 12 3 L B 22
Limarosta® 316L-130	0.02	0.65	1.0	18.0	11.5	2.8	-	-	-	-	A5.4	E316L-17	EN 1600	E 19 12 3 L R 53
Arosta® 318	0.03	0.8	0.85	18.0	11.5	2.7	0.35	-	-	-	A5.4	E318-16	EN 1600	E 19 12 3 Nb R 12
Jungo® 318	0.025	1.5	0.4	18.0	11.0	2.7	0.5	-	-	-	A5.4	E318-15*	EN 1600	E 19 12 3 Nb B 22
Arosta® 4439	0.02	1.3	0.8	18.0	17.0	4.6	-	-	0.18	-			EN 1600	E 18 16 5 N L R 32
Jungo® 4455	0.03	7.3	0.4	20.0	16.0	3.0	-	-	0.16	-	A5.4	E316LMn-15	EN 1600	E 20 16 3 Mn N L B 22
Jungo® 4465	0.03	4.5	0.4	25.0	22.0	2.2	-	-	0.13	-	A5.4	E310Mo-15*	EN 1600	E 25 22 2 N L B 22*
Jungo® 4500	0.02	1.2	0.9	20.0	25.0	5.0	-	1.5	-	-	A5.4	E385-16*	EN 1600	E 20 25 5 Cu N L R 12
Arosta® 4462	0.02	0.8	1.0	22.5	9.5	3.2	-	-	0.16	-	A5.4	E2209-16	EN 1600	E 22 9 3 N L R 32
Jungo® 4462	0.025	1.6	0.5	23.5	9.0	3.0	-	-	0.15	-	A5.4	E2209-15	EN 1600	E 22 9 3 N L B 22
Jungo® Zeron 100X	0.03	0.8	0.3	25.0	9.5	3.6	-	0.8	0.2	0.7	A5.4	E2595-15	EN 1600	E 25 9 4 N L B 42
Jungo® 309L	0.025	1.5	0.4	23.0	13.0	-	-	-	-	-	A5.4	E309L-15	EN 1600	E 23 12 L B 22
Arosta® 309S	0.02	0.8	0.8	23.5	12.5	-	-	-	-	-	A5.4	E309L-16	EN 1600	E 23 12 L R 32
Limarosta® 309S	0.02	0.8	1.0	23.0	12.5	-	-	-	-	-	A5.4	E309L-17	EN 1600	E 23 12 L R 32
Arosta® 309Nb	0.02	0.8	0.8	23.0	12.0	-	0.5	-	-	-	A5.4	E309Cb-16*	EN 1600	E 23 12 Nb R 32
Arosta® 309Mo	0.02	0.8	0.8	23.0	12.5	2.7	-	-	-	-	A5.4	E309LMo-16	EN 1600	E 23 12 2 L R 32
Nichroma	0.025	0.8	1.0	20.0	9.5	2.3	-	-	-	-	A5.4	E308LMo-16	EN 1600	E 20 10 3 R 32
Nichroma 160	0.05	0.7	1.0	23.7	12.8	2.4	-	-	-	-	A5.4	E309Mo-26	EN 1600	E 23 12 2 LR 53*
Arosta® 329	0.08	0.7	1.2	25.0	4.5	-	-	-	-	-			EN 1600	E 25 4 R 12*
Limarosta® 312	0.11	0.9	1.0	29.0	9.0	-	-	-	-	-	A5.4	E312-17	EN 1600	E 29 9 R 12
Arosta® 307	0.09	5.0	0.6	18.5	8.5	-	-	-	-	-	A5.4	E307-16*	EN 1600	E 18 8 Mn R 12
Arosta® 307-160	0.06	5.0	1.0	18.0	8.0	-	-	-	-	-	A5.4	E307-26*	EN 1600	E 18 8 Mn R 53
Jungo® 307	0.08	5.5	0.3	19.0	8.5	-	-	-	-	-	A5.4	E307-15*	EN 1600	E 18 8 Mn B 22
Arosta® 304H	0.05	0.75	0.85	18.5	9.5	-	-	-	-	-	A5.4	E308H-16	EN 1600	E 19 9 H R 12
Arosta® 309H	0.10	0.8	1.6	22.0	11.0	-	-	-	-	-	A5.4	E309H-16*	EN 1600	E 23 12 R 32*
Intherma® 310	0.12	2.5	0.5	26.0	20.5	-	-	-	-	-	A5.4	E310-16	EN 1600	E 25 20 R 12
Intherma® 310B	0.1	3.0	0.3	25.0	21.0	-	-	-	-	-	A5.4	E310-15*	EN 1600	E 25 20 B 12

* For deviations, consult datasheet

COVERED ELECTRODES FOR NICKEL BASE ALLOYS

Product name	Chemical composition (typical values) in %												AWS		EN/ISO	
	C	Mn	Si	Fe	Cr	Ni	Mo	Cu	Nb	W	Ti	S				
NiCro 31/27	0.02	0.8	0.9	35.8	27.1	31.0	3.5	0.9	-	-	-	-	A5.4	E383-16	EN 1600	E 27 31 4 Cu L R 12
NiCro 60/20	0.03	0.5	0.35	2	22	62	9	-	3.4	-	-	-	A5.11/A5.11M	ENiCrMo-3	ISO 14172	E Ni 6625 (NiCr22Mo9Nb)
NiCro 70/15	0.02	4.4	0.45	6	18	68.4	-	-	1.9	-	-	-	A5.11/A5.11M	ENiCrFe-2*	ISO 14172	E Ni 6182* (NiCr15Fe6Mn)*
NiCro 70/15Mn	0.025	5.5	0.4	-	16	76.1	-	-	2.0	-	-	0.010	A5.11/A5.11M	ENiCrFe-3	ISO 14172	E Ni 6182 (NiCr15Fe6Mn)
NiCro 70/19	0.03	4.7	0.6	4.0	19.0	67.7	1.5	-	1.9	-	-	-	A5.11/A5.11M	ENiCrFe-2*	ISO 14172	E Ni 6082 (NiCr20Mn3Nb)
NiCroMo 60/16	0.015	0.5	0.05	6.5	15.5	57.9	16.0	-	-	3.5	-	-	A5.11/A5.11M	ENiCrMo-4	ISO 14172	E Ni 6276 (NiCr15Mo15Fe6W4)
NiCroMo 59/23	0.015	0.4	0.15	-	22.5	59.0	15.5	-	-	-	-	-	A5.11/A5.11M	ENiCrMo-13	ISO 14172	E Ni 6059 (NiCr23Mo16)
NiCu 70/30	0.03	3.0	0.4	1.75	-	64.5	-	30	-	-	0.35	-	A5.11/A5.11M	ENiCu-7	ISO 14172	E Ni 4060 (NiCu30Mn3Ti)
Nyloid 2	0.05	3.0	0.4	6	13	68	6	-	1.5	1.5	-	-	A5.11/A5.11M	ENiCrMo-6	ISO 14172	E Ni 6620 (NiCr14Mo7Fe)

* For deviations, consult datasheet

COVERED ELECTRODES FOR ALUMINIUM ALLOYS

Product name	Chemical composition (typical values) in %									AWS		EN/ISO	
	Mn	Si	Fe	Cu	Al	Mg	Zn	Ti	Others				
Al99.8	0.02 max.	0.085 max.	0.13 max.	0.02 max.	99.8 min.	-	0.03 max.	-	0.02 max.	A5.3	E1100*	ISO 18273	Al 1080A (Al 99.8(A))
AlMn	0.9-1.2	0.3 max.	0.6 max.	0.02 max.	Bal.	0.15 max.	0.09 max.	-	0.15 max.	A5.3	E3003*	ISO 18273	Al 3103 (AlMn1)
AlSi5	-	5.0	-	-	Bal.	-	-	-	-	A5.3	E4043	ISO 18273	Al 4043A* (AlSi5(A))
AlSi12	-	-12.0	-	-	Bal.	-	-	-	-			ISO 18273	Al 4047A (AlSi12(A))

* For deviations, consult datasheet

COVERED ELECTRODES FOR REPAIR WELDING

Product name	Chemical composition (typical values) in %										AWS		DIN		EN/ISO	
	C	Mn	Si	Cr	Mo	W	V	Nb	B	Ti						
Wearshield® BU-30	0.2	0.8	1.0	1.5	0.5	-	-	-	-	-			DIN 8555	E1-UM-350-GP	EN 14700	E Fe1
Wearshield® Mangjet (e)	0.7	15	-	3.7	-	-	-	-	-	-			DIN 8555	E7-UM-200-KP	EN 14700	E Fe9
Wearshield® 15CrMn	0.35	14.0	0.6	15.0	-	-	-	-	-	-			DIN 8555	E7-UM-250-KP	EN 14700	E Fe9
Wearshield® MM 40	0.2	0.5	1.3	3.4	0.5	-	-	-	-	-			DIN 8555	E1-UM-400-G*	EN 14700	E Fe1
Wearshield® MM	0.55	0.5	1.5	4.5	0.5	0.5	-	-	-	-			DIN 8555	E2-UM-55-G*	EN 14700	E Fe2
Wearshield® T&D	0.65	0.4	0.7	4	6.0	1.8	1.1	-	-	-	A5.13	E Fe6*	DIN 8555	E4-UM-60-SZ	EN 14700	E Fe4
Wearshield® MI (e)	0.5	0.4	1.8	9	-	-	-	-	-	-	A5.13	E Fe6	DIN 8555	E6-UM-60-GPS	EN 14700	E Fe6
Wearshield® ABR	2.1	1.1	0.75	6.5	0.40	-	-	-	-	-			DIN 8555	E10-UM-50-GPZ	EN 14700	E Fe6
Wearshield® 44	2.0	0.16	0.9	24.2	2.5	-	-	-	-	-			DIN 8555	E10-UM-45-GPZ	EN 14700	E Fe14
Wearshield® ME (e)	3	-	1.0	33	-	-	-	-	-	-			DIN 8555	E10-UM-60-GRZ	EN 14700	E Fe14
Wearshield® 50MC	5	2	2.1	21	-	3.1	0.7	6.4	0.8	-			DIN 8555	E10-UM-65-GRZ	EN 14700	E Fe16
Wearshield® 60 (e)	5	-	4	35	-	-	-	-	-	-			DIN 8555	E10-UM-60-GR	EN 14700	E Fe15
Wearshield® 70	4.2	-	2.7	18	8.5	7	-	9	-	-			DIN 8555	E10-UM-65-GRZ	EN 14700	E Fe16
Wearshield® 420	0.5	0.3	0.4	12.4	0.4	-	-	-	-	1.3			DIN 8555	E6-UM-55-RZ	EN 14700	E Fe8

* Nearest classification

COVERED ELECTRODES FOR REPAIR WELDING

Product name	Chemical composition (typical values) in %						AWS		EN/ISO	
	C	Mn	Si	Ni	Cr	Fe				
RepTec Cast 1	0.7	-	-	97	-	2.0	A5.15	ENi-CI	ISO 1071	E C Ni-CI 1
RepTec Cast 3	0.6	-	-	balance	-	40	A5.5	ENiFe-CI	ISO 1071	E C NiFe-CI 1
RepTec Cast 31	0.7	-	-	balance	-	45	A5.15	ENiFe-CI	ISO 1071	E C NiFe-CI 1

TIG AND MIG WIRES FOR MILD STEEL

Product name	Chemical composition (typical values) in %			AWS		EN/ISO	
	C	Mn	Si				
LNM 25	0.08	1.1	0.6	A5.18/A5.18M	ER70S-3	ISO 14341-A	G 42 2 M G2Si
LNT 25	0.08	1.1	0.6	A5.18/A5.18M	ER70S-3	EN/ISO 636-A	W 42 5 W2Si
LNM 26	0.08	1.4	0.8	A5.18/A5.18M	ER70S-6	ISO 14341-A	G 46 4 M G3Si1
LNT 26	0.10	1.5	0.9	A5.18/A5.18M	ER70S-6	EN/ISO 636-A	W 42 5 W3Si1
LNM 27	0.08	1.70	0.85	A5.18/A5.18M	ER70S-6	ISO 14341-A	G 42 3 M G4Si1
UltraMag™	0.07	1.45	0.85	A5.18/A5.18M	ER70S-6	ISO 14341-A	G 42 4 M G3Si1 / G 42 2 C G3Si1
UltraMag™ SG3	0.07	1.65	0.90	A5.18/A5.18M	ER70S-6	ISO 14341-A	G 46 5 M G4Si1/G 42 4 C G4Si1
SupraMIG®	0.08	1.55	0.85	A5.18/A5.18M	ER70S-6	ISO 14341-A	G 42 4 M G3Si1 / G 38 3 C G3Si1
SupraMIG Ultra®	0.08	1.70	0.85	A5.18/A5.18M	ER70S-6	ISO 14341-A	G 46 4 M G4Si1 / G 42 3 C G4Si1

TIG AND MIG WIRES FOR LOW ALLOY STEEL

Product name	Chemical composition (typical values) in %										AWS		EN/ISO	
	C	Mn	Si	Ni	Cu	Cr	Mo	V	Nb	N				
LNM 28	0.1	1.4	0.75	0.8	0.3	-	-	-	-	-	A5.28	ER80S-G	EN/ISO 16834	G 2 Mn3Ni1Cu*
LNT 28	0.1	1.4	0.75	0.8	0.3	-	-	-	-	-	A5.28	ER80S-G		
LNM MoNi	0.10	1.65	0.75	0.55	0.08	0.60	0.30	-	-	-	A5.28	ER100S-G	EN/ISO 16834	G 62 4 M Mn3NiCrMo
LNM MoNiVa	0.08	1.7	0.44	1.35	0.25	0.23	0.3	0.08	-	-	A5.28	ER100S-G	EN/ISO 16834	G 69 4 M Mn3Ni1CrMo
LNM MoNiCr	0.09	1.8	0.80	2.20	-	0.30	0.55	-	-	-	A5.28	ER120S-G	EN/ISO 16834	G 89 4 M Mn4Ni2CrMo
LNM Ni1	0.08	1.77	0.57	0.9	-	-	0.38	-	-	-	A5.28	ER80S-Ni1	ISO 14341-A	G 46 5 M G3Ni1
LNT Ni1	0.10	1.0	0.6	0.9	-	-	0.35	-	-	-	A5.28	ER80S-Ni1	EN/ISO 636-A	W 42 6 W3Ni1
LNT NiMo1	0.10	1.7	0.7	0.9	-	-	-	-	-	-	A5.28	ER100S-G	ISO 14341-A	G 69 4 M Mn3Ni1Mo
LNM Ni2.5	0.1	1.1	0.6	2.5	-	-	-	-	-	-	A5.28	ER80S-Ni2	ISO 14341-A	G 46 6 M G2Ni2
LNT Ni2.5	0.1	1.1	0.6	2.5	-	-	-	-	-	-	A5.28	ER80S-Ni2	EN/ISO 636-A	W 46 6 W2Ni2
LNM 12	0.12	1.2	0.6	-	-	-	0.5	-	-	-	A5.28	ER70S-A1	ISO 14341-A	G 46 3 M G2Mo
LNT 12	0.12	1.2	0.6	-	-	-	0.5	-	-	-	A5.28	ER70S-A1	ISO 21952-A	W MoSi
LNM 19	0.1	1.0	0.5	-	-	1.2	0.5	-	-	-	A5.28	ER80S-B2*	ISO 21952-A	G CrMo1Si
LNT 19	0.1	1.0	0.5	-	-	1.2	0.5	-	-	-	A5.28	ER80S-B2*	ISO 21952-A	W CrMo1Si
LNM 20	0.09	1.0	0.6	-	-	2.5	0.9	-	-	-	A5.28	ER90S-B3*	ISO 21952-A	G CrMo2Si
LNT 20	0.09	1.0	0.6	-	-	2.5	0.9	-	-	-	A5.28	ER90S-B3*	ISO 21952-A	W CrMo2Si
LNT 502	0.08	0.5	0.3	-	-	5.8	0.6	-	-	-	A5.28	ER80S-B6	ISO 21952-A	W CrMo5Si
LNT 9Cr(P91)	0.07	0.7	0.3	0.7	-	8.7	0.9	0.2	0.04	0.05	A5.28	ER90S-B9	ISO 21952-A	W CrMo91

* Nearest classification

WIRES FOR MIG/MAG & TIG WELDING (HIGH ALLOY STEEL)

Product name	Chemical composition (typical values) in %												AWS		EN/ISO	
	C	Mn	Si	Cr	Ni	Mo	Nb	N	Cu	P	S	W				
LNM 304LSi	0.020	1.7	0.8	20.0	10.0	0.2	-	-	-	-	-	-	A5.9	ER308LSi	ISO 14343-A	G 19 9 L Si
LNT 304LSi	0.010	1.6	0.8	20.0	10.0	0.2	-	-	-	-	-	-	A5.9	ER308LSi	ISO 14343-A	W 19 9 L Si
LNM 304L	0.010	1.6	0.5	20.0	10.0	0.2	-	-	-	-	-	-	A5.9	ER308L	ISO 14343-A	G 19 9 L
LNT 304L	0.010	1.6	0.5	20.0	10.0	0.2	-	-	-	-	-	-	A5.9	ER308L	ISO 14343-A	W 19 9 L
LNM 347Si	0.04	1.3	0.9	19.2	9.9	0.30	0.6	-	-	-	-	-	A5.9	ER347Si	ISO 14343-A	G 19 9 NbSi
LNT 347Si	0.04	1.5	0.8	19.5	9.5	0.30	0.6	-	-	-	-	-	A5.9	ER347Si	ISO 14343-A	W 19 9 NbSi
LNT 316L	0.010	1.5	0.5	18.5	12	2.7	-	-	-	-	-	-	A5.9	ER316L	ISO 14343-A	W 19 12 3 L
LNM 316LSi	0.010	1.6	0.8	18.5	12.2	2.5	-	-	-	-	-	-	A5.9	ER316LSi	ISO 14343-A	G 19 12 3 L Si
LNT 316LSi	0.010	1.7	0.8	18.5	12.2	2.7	-	-	-	-	-	-	A5.9	ER316LSi	ISO 14343-A	W 19 12 3 L Si
LNM 318Si	0.04	1.4	0.85	18.9	11.7	2.7	0.5	-	-	-	-	-	A5.9	ER318*	ISO 14343-A	G 19 12 3 NbSi
LNT 318Si	0.04	1.5	0.8	19.0	12.0	2.7	0.6	-	-	-	-	-	A5.9	ER318*	ISO 14343-A	W 19 12 3 NbSi
LNM 4439Mn	0.02	7.0	0.7	19.1	16.9	4.6	-	0.15	-	-	-	-			ISO 14343-A	G 18 16 5 N L*
LNT 4439Mn	0.02	7.0	0.4	18.0	16.0	4.5	-	0.15	-	-	-	-			ISO 14343-A	W 18 16 5 N L*
LNM 4455	0.015	7.0	0.35	20.0	16.0	2.8	-	0.15	-	-	-	-	A5.9	ER316LMn	ISO 14343-A	G 20 16 3 Mn L
LNT 4455	0.025	7.5	0.4	19.0	15.0	2.7	-	0.15	-	-	-	-	A5.9	ER316LMn	ISO 14343-A	W 20 16 3 Mn L
LNM 4465	0.018	5.0	0.4	25.0	23.0	2.0	-	0.15	-	-	-	-			ISO 14343-A	G 25 22 2 N L
LNT 4465	0.018	5.0	0.4	25.0	23.0	2.0	-	0.15	-	-	-	-			ISO 14343-A	W 25 22 2 N L
LNM 4500	0.009	1.7	0.3	20.0	25.0	4.4	-	-	1.5	-	-	-	A5.9	ER385	ISO 14343-A	G 20 25 5 Cu L
LNT 4500	0.013	2.0	0.4	20.0	25.0	4.5	-	-	1.5	-	-	-	A5.9	ER385	ISO 14343-A	W 20 25 5 Cu L
LNM 4362	0.020	1.7	0.7	23.0	7.0	0.3	-	0.14	-	0.020	0.004	-	No EN or AWS standard			
LNM 4462	0.018	1.5	0.5	22.7	8.5	3.0	-	0.15	-	-	-	-	A5.9	ER2209	ISO 14343-A	G 22 9 3 N L
LNT 4462	0.015	1.6	0.5	22.5	8.5	3.0	-	0.15	-	-	-	-	A5.9	ER2209	ISO 14343-A	W 22 9 3 N L
LNM Zeron 100X	0.015	0.7	0.4	25.0	9.8	3.7	-	0.22	0.6	-	-	0.7	A5.9	ER2594	ISO 14343-A	G 25 9 4 N L
LNT Zeron 100X	0.020	0.6	0.4	25.0	9.3	3.6	-	0.22	0.65	-	-	0.7	A5.9	ER2594	ISO 14343-A	W 25 9 4 N L
LNM 309LSi	0.010	1.8	0.8	23.3	13.8	0.14	-	-	-	-	-	-	A5.9	ER309LSi	ISO 14343-A	G 23 12 L Si
LNT 309LSi	0.010	1.6	0.8	23.5	13.0	0.2	-	-	-	-	-	-	A5.9	ER309LSi	ISO 14343-A	W 23 12 L Si
LNT 309LHF	0.010	1.65	0.35	24	13	0.05	-	-	-	-	-	-	A5.9	ER309L	ISO 14343-A	W 23 12 L
LNM 307	0.08	7.1	0.8	19.2	9.0	-	-	-	-	-	-	-	A5.9	ER307*	ISO 14343-A	G 18 8 Mn
LNT 307	0.08	6.5	0.7	18.5	8.5	-	-	-	-	-	-	-	A5.9	ER307*	ISO 14343-A	W 18 8 Mn
LNM 304H	0.05	1.8	0.5	20.0	10.0	0.2	-	-	-	-	-	-	A5.9	ER308H	ISO 14343-A	G 19 9 H
LNT 304H	0.05	1.6	0.5	20.0	10.0	0.2	-	-	-	-	-	-	A5.9	ER308H	ISO 14343-A	W 19 9 H
LNM 430LNb	0.01	0.7	0.4	18.0	-	-	0.3	-	-	-	-	-				
LNM 309H	0.05	1.8	0.5	24.0	13.5	0.2	-	-	-	-	-	-	A5.9	ER309	ISO 14343-A	G 23 12 L*
LNM 310	0.1	1.8	0.45	26.0	21.0	0.2	-	-	-	-	-	-	A5.9	ER310	ISO 14343-A	G 25 20
LNT 310	0.1	1.7	0.5	26.0	21	0.2	-	-	-	-	-	-	A5.9	ER310	ISO 14343-A	W 25 20
Lincoln MIG 308LSi	0.020	1.7	0.8	20.0	10.0	0.2	-	-	-	-	-	-	A5.9	ER308LSi	ISO 14343-A	G 19 9 LSi
Lincoln TIG 308LSi	0.010	1.6	0.8	20.0	10.0	0.2	-	-	-	-	-	-	A5.9	ER308LSi	ISO 14343-A	W 19 9 LSi
Lincoln TIG 308L	0.010	1.6	0.5	20.0	10.0	0.2	-	-	-	-	-	-	A5.9	ER308L	ISO 14343-A	W 19 9 L
Lincoln MIG 316LSi	0.010	1.6	0.8	18.5	12.2	2.5	-	-	-	-	-	-	A5.9	ER316LSi	ISO 14343-A	G 19 12 3 LSi
Lincoln TIG 316LSi	0.010	1.7	0.8	18.5	12.2	2.7	-	-	-	-	-	-	A5.9	ER316LSi	ISO 14343-A	W 19 12 3 LSi
Lincoln TIG 316L	0.010	1.5	0.5	18.5	12	2.7	-	-	-	-	-	-	A5.9	ER316L	ISO 14343-A	W 19 12 3 L
Lincoln MIG 309LSi	0.010	1.8	0.8	23.3	13.8	0.14	-	-	-	-	-	-	A5.9	ER309LSi	ISO 14343-A	G 23 12 LSi
Lincoln TIG 309LSi	0.010	1.6	0.8	23.5	13.0	0.20	-	-	-	-	-	-	A5.9	ER309LSi	ISO 14343-A	W 23 12 LSi
Lincoln TIG 309L	0.010	1.65	0.35	24.0	13.0	0.05	-	-	-	-	-	-	A5.9	ER309L	ISO 14343-A	W 23 12 L
Lincoln MIG 307	0.08	7.1	0.8	19.2	9.0	-	-	-	-	-	-	-	A5.9	ER307*	ISO 14343-A	G 18 8 Mn

* Nearest classification

WIRES FOR MIG/MAG & TIG WELDING (NI BASE ALLOYS)

Product name	Chemical composition (typical values) in %												AWS		EN/ISO	
	C	Mn	Si	Ni	Cr	Mo	Cu	Nb	Fe	Al	W	Ti				
LNM NiCro 31/27	0.01	1.5	0.2	31.0	27.0	3.5	1.0	-	-	-	-	-	A5.9	ER383	ISO 14343-A	G 27 31 4 Cu L
LNT NiCro 31/27	0.01	1.5	0.2	31.0	27.0	3.5	1.0	-	-	-	-	-	A5.9	ER383	ISO 14343-A	W 27 31 4 Cu L
LNM NiCro 60/20	0.02	0.06	0.07	64	21.9	9.0	-	3.5	0.4	-	-	-	A5.14/A5.14M	ERNiCrMo-3	ISO 18274	S Ni 6625 (NiCr22Mo9Nb)
LNT NiCro 60/20	0.03	0.1	0.1	bal.	22.0	9.0	-	3.5	0.4	-	-	-	A5.14/A5.14M	ERNiCrMo-3	ISO 18274	S Ni 6625 (NiCr22Mo9Nb)
LNM NiCro 70/19	0.03	3.1	0.08	72.5	20.5	-	0.01	2.6	0.8	-	-	-	A5.14/A5.14M	ERNiCr-3	ISO 18274	S Ni 6082 (NiCr20Mn3Nb)
LNT NiCro 70/19	0.03	3.0	0.2	bal.	20.0	-	0.1	2.5	1.0	-	-	-	A5.14/A5.14M	ERNiCr-3	ISO 18274	S Ni 6082 (NiCr20Mn3Nb)
LNT NiCroMo 59/23	0.015	0.5	0.06	59	23	16	-	-	1.5	0.4	-	-	A5.14/A5.14M	ERNiCrMo-13	ISO 18274	S Ni 6059 (NiCr23Mo16)
LNM NiCroMo 60/16	0.006	0.5	0.04	57.8	16.0	16.0	-	-	5.8	-	3.6	-	A5.14/A5.14M	ERNiCrMo-4	ISO 18274	S Ni 6276 (NiCr15Mo16Fe6W4)
LNT NiCroMo 60/16	0.006	0.5	0.04	57.8	16.0	16.0	-	-	5.8	-	3.6	-	A5.14/A5.14M	ERNiCrMo-4	ISO 18274	S Ni 6276 (NiCr15Mo16Fe6W4)
LNM NiCu 70/30	0.10	3.3	0.6	64	-	-	29	-	1.5	-	-	2.4	A5.14/A5.14M	ERNiCu-7	ISO 18274	S Ni 4060 (NiCu30MnTi)
LNT NiCu 70/30	0.06	3.5	0.5	65	-	-	30	-	1.1	-	-	2.0	A5.14/A5.14M	ERNiCu-7	ISO 18274	S Ni 4060 (NiCu30MnTi)
LNM NiTi	0.02	0.4	0.2	bal.	-	-	-	-	0.06	-	-	3.1	A5.14/A5.14M	ERNi1	ISO 18274	S Ni 2061 (NiTi3)
LNT NiTi	0.03	0.5	0.4	bal.	-	-	-	-	0.06	-	-	2.8	A5.14/A5.14M	ERNi1	ISO 18274	S Ni 2061 (NiTi3)
LNM NiFe	0.05	0.83	0.14	bal.	-	-	0.4	-	43.8	-	-	-	A5.15	ENiFe-CI	ISO 1071	S NiFe-CI

WIRES FOR MIG/MAG & TIG WELDING (CU BASE ALLOYS)

Product name	Chemical composition (typical values) in %										AWS		EN/ISO	
	C	Al	Mn	Ni	Si	Ti	Fe	Sn	P	Zn				
LNM CuAl8	bal.	8	0.3	-	-	-	-	-	-	-	A5.7	ERCuAl-A1	EN 14640	S Cu 6100 (CuAl8)
LNT CuAl8	bal.	8	0.3	-	-	-	-	-	-	-	A5.7	ERCuAl-A1	EN 14640	S Cu 6100 (CuAl8)
LNM CuAl8Ni2	bal.	8.7	1.5	2.1	-	-	2.0	-	-	-			EN 14640	S Cu 6327
LNM CuAl8Ni6	bal.	9	2.5	5.0	-	-	4.0	-	-	-	A5.7	ERCuNiAl	EN 14640	S Cu 6328 (CuAl9Ni5)
LNM CuNi30	bal.	-	0.8	31	-	-	-	-	-	-	A5.7	ERCuNi	EN 14640	S Cu 7158 (CuNi30)
LNT CuNi30	bal.	-	0.75	30	0.05	0.35	0.5	-	-	-	A5.7	ERCuNi	EN 14640	S Cu 7158 (CuNi30)
LNM CuSn	bal.	-	0.2	0.1	0.3	-	-	0.8	-	-	A5.7	ERCu	EN 14640	S Cu 1898 (CuSn1)
LNM CuSn6	bal.	-	-	-	-	-	-	6	0.2	-	A5.7	ERCuSn-A	EN 14640	S Cu 5180 (CuSn6P)
LNT CuSn6	bal.	-	-	-	-	-	-	6	0.2	-	A5.7	ERCuSn-A	EN 14640	S Cu 5180 (CuSn6P)
LNM CuSn12	bal.	-	-	-	-	-	-	12	0.2	-			EN 14640	S Cu 5410 (CuSn12P)
LNM CuSi3	bal.	-	1.0	-	3.0	-	-	0.1	-	0.1	A5.7	ERCuSi-A	EN 14640	S Cu 6560 (CuSi3Mn1)
LNT CuSi3	bal.	-	1.0	-	3.0	-	-	0.1	-	0.1	A5.7	ERCuSi-A	EN 14640	S Cu 6560 (CuSi3Mn1)

WIRES FOR MIG/MAG & TIG WELDING (ALUMINIUM)

Product name	Chemical composition (typical values) in %											AWS		EN/ISO	
	Al	Mn	Si	Ti	Fe	Zn	Mg	Cr	Cu	Si+Fe	Zr				
SuperGlaze® MIG 4043	bal.	0.01	4.7	0.001	0.3	0.002	0.004	-	0.01	-	-	A5.10	ER4043	ISO 18273	S Al 4043 A (AlSi5)
SuperGlaze® TIG 4043	bal.	0.05	5.0	0.15	0.4	0.1	-	-	-	-	-	A5.10	R4043	ISO 18273	S Al 4043 A (AlSi5)
SuperGlaze® MIG 5183	bal.	0.8	0.2	0.15	0.14	0.15	4.5	0.15	0.02	-	-	A5.10	ER5183	ISO 18273	S Al 5183 (AlMg4.5Mn0,7)
SuperGlaze® TIG 5183	bal.	0.8	0.1	0.02	0.2	0.15	4.5	0.15	-	-	-	A5.10	R5183	ISO 18273	S Al 5183 (AlMg4.5Mn0,7)
SuperGlaze® MIG 5356	bal.	0.11	0.08	0.06	0.2	0.03	4.9	0.07	0.01	-	-	A5.10	ER5356	ISO 18273	S Al 5356 (AlMg5Cr)
SuperGlaze® TIG 5356	bal.	0.10	0.1	0.10	-	-	5.0	0.15	-	-	-	A5.10	R5356	ISO 18273	S Al 5356 (AlMg5)
LNM Al99.5	bal.	<0.01	0.05	0.04	0.12	0.02	-	-	0.04	0.2	-	A5.10	ER1100*		
LNT Al99.5	bal.	<0.01	0.05	0.04	-	0.02	-	-	0.04	-	-	A5.10	ER1100*		
LNM AlMg3	bal.	0.01	0.06	0.09	0.13	0.1	3.4	0.19	0.01	-	-			ISO 18273	S Al 5754 (AlMg3)
LNT AlMg3	bal.	0.01	0.06	0.10	-	0.1	3.2	0.20	0.01	-	-			ISO 18273	S Al 5754 (AlMg3)
LNM AlMg5	bal.	0.11	0.08	0.06	0.2	0.03	4.9	0.07	0.01	-	-	A5.10	ER5356	ISO 18273	S Al 5356 (AlMg5)
LNT AlMg5	bal.	0.10	0.10	0.10	-	-	5.0	0.15	-	-	-	A5.10	ER5356	ISO 18273	S Al 5356 (AlMg5)
LNM AlMg4.5Mn	bal.	0.65	0.09	0.02	0.14	0.03	5	0.06	0.02	-	-	A5.10	ER5183	ISO 18273	S Al 5183 (AlMg4.5Mn0,7)
LNT AlMg4.5Mn	bal.	0.80	0.10	0.02	0.20	0.15	4.5	0.15	-	-	-	A5.10	ER5183	ISO 18273	S Al 5183 (AlMg4.5Mn0,7)
LNM AlMg4.5MnZr	bal.	0.8	0.2	0.15	-	0.15	4.5	0.15	-	-	0.1			ISO 18273	S Al 5087 (AlMg4.5MnZr)
LNM AlSi5	bal.	0.01	4.7	0.001	0.3	0.002	0.004	-	0.01	-	-	A5.10	ER4043	ISO 18273	S Al 4043A (AlSi5(Al))
LNT AlSi5	bal.	0.05	5.0	0.15	0.4	0.10	-	-	-	-	-	A5.10	ER4043	ISO 18273	S Al 4043A (AlSi5(Al))
LNM AlSi12	bal.	0.01	11.4	0.01	0.4	0.01	-	-	0.04	-	-	A5.10	ER4047	ISO 18273	S Al 4047A (AlSi12 (A))
LNT AlSi12	bal.	-	12.0	-	0.5	0.10	0.10	-	-	-	-	A5.10	ER4047	ISO 18273	S Al 4047A (AlSi12 (A))

* Nearest classification

OTHERS

Product name	Chemical composition (typical values) in %								AWS		DIN/ISO	
	C	Mn	Si	Cr	P	S	Ni	Mo				
LNM 420FM	0.5	0.4	3	9	-	-	-	-			DIN 8555	MSG 6-GZ-60-PS
LNM 4M	0.7	1.9	0.45	1.0	-	-	-	-			DIN 8555	MSG 2-GZ-350
LNG I	0.07	0.4	0.07	-	0.01	0.01	-	-	A5.2	R45*	EN 12536	O I
LNG II	0.10	1.1	0.15	-	0.01	0.01	-	-	A5.2	R60*	EN 12536	O II
LNG III	0.06	1.1	0.15	-	0.01	0.01	0.40	-	A5.2	R60*	EN 12536	O III
LNG IV	0.09	1.0	0.19	-	0.010	0.010	-	0.5	A5.2	R65*	EN 12536	O IV

GAS SHIELDED FLUX-CORED WIRES (MILD AND LOW ALLOY STEEL)

Product name	Chemical composition (typical values) in %										AWS		EN/ISO	
	Gas	C	Mn	Si	P	S	Ni	Cu	Mo	Cr				
Outershield® 70	C1	0.06	1.30	0.50	0.015	0.010	-	-	-	-	A5.20/A5.20M	E70T-9C / E70T-9M	EN ISO 17632-A	T 46 0 R C 3 / T 46 0 R M 3
Outershield® 70	M21	0.06	1.70	0.35	0.015	0.010	-	-	-	-	A5.20/A5.20M	E70T-9C / E70T-9M	EN ISO 17632-A	T 46 0 R C 3 / T 46 0 R M 3
Outershield® 70-H	C1	0.06	1.30	0.50	0.015	0.010	-	-	-	-	A5.20/A5.20M	E70T1C-H4 / E70T-1M-H4	EN ISO 17632-A	T 46 0 R C 3 H5 / T 46 0 R M 3 H5
Outershield® 70-H	M21	0.06	1.70	0.35	0.015	0.010	-	-	-	-	A5.20/A5.20M	E70T1C-H4 / E70T-1M-H4	EN ISO 17632-A	T 46 0 R C 3 H5 / T 46 0 R M 3 H5
Outershield® 70E-H	C1/M21	0.04	1.45	0.6	0.015	0.010	-	-	-	-	A5.20/A5.20M	E70T1C-JH4 / E70T-1M-JH4	EN ISO 17632-A	T 46 3 R C 3 H5 / T 46 3 R M 3 H5
Outershield® 71E	M21	0.05	1.25	0.7	0.015	0.015	-	-	-	-	A5.20/A5.20M	E71T1M-JH8	EN ISO 17632-A	T 46 3 P M 1 H10
Outershield® 71E-H	M21	0.04	1.4	0.6	0.013	0.010	-	-	-	-	A5.20/A5.20M	E71T-1M-JH5	EN ISO 17632-A	T 46 3 P M 1 H5
Outershield® 71M-H	C1	0.05	1.3	0.4	0.015	0.010	-	-	-	-	A5.20/A5.20M	E71T-1CJ-H4	EN ISO 17632-A	T 46 2 P C 1 H5
Outershield® 71C	C1	0.05	1.4	0.4	0.015	0.010	-	-	-	-	A5.20/A5.20M	E71T-1C-H8/E71T-9C-H8	EN ISO 17632-A	T 46 3 P C 1 H10
Outershield® T55-H	C1	0.05	1.5	0.55	0.012	0.010	-	-	-	-	A5.20/A5.20M	E71T-5C-JH4 / E71T-5M-JH4	EN ISO 17632-A	T 42 4 B C 2 H5 / T 42 4 B M 2 H5
Outershield® T55-H	M21	0.06	1.5	0.6	0.012	0.010	-	-	-	-	A5.20/A5.20M	E71T-5C-JH4 / E71T-5M-JH4	EN ISO 17632-A	T 42 4 B C 2 H5 / T 42 4 B M 2 H5
Outershield® MC700	M21	0.05	1.35	0.6	0.015	0.023	-	-	-	-	A5.18/A5.18M	E70C-6M H8	EN ISO 17632-A	T 46 2 M M 2 H10
Outershield® MC710-H	M21	0.05	1.35	0.6	0.015	0.023	-	-	-	-	A5.18/A5.18M	E70C-6M H4	EN ISO 17632-A	T 46 3 M M 2 H5 [1] / T 46 2 M M 2 H5
Outershield® MC710C-H	C1	0.05	1.35	0.6	0.015	0.023	-	-	-	-	A5.18/A5.18M	E70C-6C H4	EN ISO 17632-A	T 46 3 M C 2 H5
Outershield® MC715-H	M21	0.04	1.5	0.4	0.012	0.020	-	-	-	-	A5.18/A5.18M	E70C-6M H4	EN ISO 17632-A	T 46 4 M M 2 H5
Outershield® MC460VD-H	M21	0.05	1.25	0.6	0.015	0.015	-	-	-	-	A5.18/A5.18M	E70C-6M H4	EN ISO 17632-A	T 46 2 M M 1 H5
Outershield® MC420N-H*	M21	0.03	0.6	0.45	0.017	0.023	2.9	-	-	0.03	A5.28/A5.28M	E70C-GM H4	EN ISO 17632-A	T 38 Z Z M M 2 H5
Outershield® 81Ni1C-H	C1	0.05	1.4	0.2	0.013	0.010	0.95	-	-	-	A5.29/A5.29M	E81T1-Ni1C-JH4 [3]	EN ISO 17632-A	T 50 4 1Ni P C 2 H5 [4]
Outershield® 81Ni1-H	M21	0.05	1.4	0.2	0.013	0.010	0.95	-	-	-	A5.29/A5.29M	E81T1-Ni1M-JH4 [3]	EN ISO 17632-A	T 50 5 1Ni P M 2 H5 [4]
Outershield® 81Ni1-HSR	M21	0.06	1.4	0.3	0.013	0.010	0.95	-	-	-	A5.29/A5.29M	E81T1-Ni1M-JH4	EN ISO 17632-A	T 50 5 1Ni P M 2 H5 T
Outershield® 81K2-H	M21	0.04	1.4	0.2	0.012	0.010	1.4	-	-	-	A5.29/A5.29M	E81T1-K2M-JH4 [3]	EN ISO 17632-A	T 50 6 1.5Ni P M 2 H5 [4]
Outershield® 81K2-HSR	M21	0.06	1.3	0.3	0.012	0.010	1.4	-	-	-	A5.29	E81T1-K2M-JH4	EN ISO 17632-A	T 50 6 1.5Ni P M 2 H5 T
Outershield® 500CT-H	M21	0.04	1.3	0.2	0.014	0.010	0.84	0.39	-	-	A5.29/A5.29M	E81T1-GM-H4	EN ISO 17632-A	T 50 5 Z P M 2 H5
Outershield® 555CT-H	M21	0.03	1.1	0.4	0.015	0.010	0.6	0.55	-	0.55	A5.29/A5.29M	E81T1-W2M-JH4	EN ISO 17632-B	T555T1-1MA-NCC1-UH5
Outershield® 91Ni1-HSR	M21	0.05	1.4	02	0.013	0.010	0.95	-	0.4	-	A5.29	E91T1-GM-H4	ISO 18276-A	T 55 4 1NiMo P M 2 H5
Outershield® 91K2-HSR	M21	0.05	1.4	0.2	0.013	0.010	1.4	-	0.4	-	A5.29	E91T1-GM-H4	ISO 18276-A	T 55 4 1,5NiMo P M 2 H5
Outershield® 550-H	M21	0.04	1.4	0.2	0.012	0.010	2.0	-	0.3	-	A5.29/A5.29M	E101T1-K3M-JH4	ISO 18276-A	T 55 4 Z P M 1 H5
Outershield® 690-H	M21	0.06	1.5	0.2	0.015	0.010	2.0	-	0.5	-	A5.29/A5.29M	E111T1-K3M-JH4	ISO 18276-A	T 69 4 Z P M 2 H5
Outershield® 690-HSR	M21	0.06	1.8	0.3	0.013	0.010	2.0	-	0.5	-	A5.29/A5.29M	E111T1-K3M-JH4	ISO 18276-A	T 69 4 Z P M 2 H5 T
Outershield® 101Ni1-HSR	M21	0.06	1.5	0.2	0.015	0.010	0.95	-	0.4	-	A5.29/A5.29M	E101T1-G		
Outershield® 12-H	M21	0.065	0.8	0.2	0.014	0.010	-	-	0.46	-	A5.29/A5.29M	E 81T1-A1M-H4	ISO 17634-A	T MoL P M 2 H5
Outershield® 19-H	M21	0.06	0.74	0.24	0.013	0.010	-	-	0.52	1.24	A5.29/A5.29M	E 81T1-B2M-H4	ISO 17634-A	T CrMo1 P M 2 H5
Outershield® 20-H	M21	0.06	0.75	0.21	0.013	0.008	-	-	1.09	2.23	A5.29/A5.29M	E 91T1-B3M-H4	ISO 17634-A	T CrMo2 P M 2 H5

* the mentioned classifications are an indication of the weld metal properties in the as welded condition. However, the Outershield MC420N-H is designed to be used only in the normalized condition. As neither AWS nor EN has included weld metal properties in the normalized condition, the wire cannot be classified for the condition it is designed for.

[1] ø 1.2 and 1.6 mm
[2] ø 2.0 and 2.4 mm
[3] all diameters
[4] only diameter 1.2 mm

SELF-SHIELDED FLUX-CORED WIRES

Product name	Chemical composition (typical values) in %										AWS		EN/ISO	
	C	Mn	Si	P	S	Ni	Cr	Al	V	Mo				
Innershield® NR®-152	0.30	0.99	0.24	0.013	0.007	-	-	1.63	-	-	A5.20/A5.20M	E71T-14		
Innershield® NR®-203 NiC	0.06	0.83	0.05	0.004	0.003	0.57	0.08	0.73	<0.1	<0.1	A5.29/A5.29M	E61T8-K6		
Innershield® NR®-203Ni1	0.08	1.1	0.27	0.008	0.003	0.9	-	0.85	-	-	A5.29/A5.29M	E71T8-Ni1	EN ISO 17632-A	T 42 3 1Ni Y N 1
Innershield® NR®-211-MPE	0.21	0.65	0.25	0.010	0.003	-	-	1.30	-	-	A5.20/A5.20M	E71T-11		
Innershield® NR®-232	0.18	0.65	0.27	0.006	0.004	-	-	0.55	-	-	A5.20/A5.20M	E71T-8		
Innershield® NR®-233	0.16	0.65	0.21	0.010	0.003	-	-	0.60	-	-	A5.20/A5.20M	E71T-8		
Innershield® NR®-207	0.07	0.9	0.20	0.005	0.003	0.85	-	1.0	-	-	A5.29/A5.29M	E71T8-K6		
Innershield® NR®-207-H	0.07	0.9	0.20	0.005	0.003	0.85	-	1.0	-	-	A5.29/A5.29M	E71T8-K6		
Innershield® NR®-208-H	0.05	1.65	0.25	0.007	<0.003	0.8	-	0.85	-	-	A5.29/A5.29M	E91T8-G		
Innershield® NR®-305	0.09	0.9	0.20	0.007	0.008	-	-	0.80	-	-	A5.20/A5.20M	E70T-6		
Innershield® NR®-311	0.27	0.40	0.08	0.007	0.005	-	-	1.5	-	-	A5.20/A5.20M	E70T-7		
Innershield® NR®-400	0.06	0.74	0.17	0.004	0.002	0.75	0.13	0.74	-	-	A5.29/A5.29M	E71T8-K6		
Innershield® NR®-450-H	0.07	0.26	0.06	0.004	0.002	2.44	-	0.88	-	-	A5.29/A5.29M	E71T8-Ni2 [1]		
Innershield® NR®-550-H	0.05	1.14	0.07	0.010	0.003	2.35	-	0.7	-	-	A5.29/A5.29M	E81T8-Ni2 H8		
Innershield® NS®-3ME	0.23	0.45	0.25	0.006	0.006	-	-	1.40	-	-	A5.20/A5.20M	E70T-4	EN ISO 17632-A	T 46 Z V N 3

[1] also meets: E81T8-Ni2

* Chemistries of the welds will change with different heats of steel.

GAS SHIELDED FLUX-CORED WIRES (STAINLESS STEEL)

Product name	Chemical composition (typical values) in %									AWS		EN/ISO	
	Gas	C	Mn	Si	Cr	Ni	Nb	Mo	N				
Cor-A-Rosta™ 304L	M21/C1	0.03	1.3	0.7	19.5	10.0	-	-	-	A5.22	E308LT0-1/-4	ISO 17663-A	T 19 9 L R C/M 3
Cor-A-Rosta™ P304L	M21/C1	0.03	1.3	0.7	19.5	10.0	-	-	-	A5.22	E308LT1-1/-4	ISO 17663-A	T 19 9 L P C/M 2
Cor-A-Rosta™ 347	M21	0.05	1.4	0.6	19.5	10.0	-	-	-	A5.22	E347T0-4	ISO 17663-A	T 19 9 Nb R M 3
Cor-A-Rosta™ 316L	M21/C1	0.03	1.3	0.5	19.0	12.0	-	2.7	-	A5.22	E316LT0-1/ -4	ISO 17663-A	T 19 12 3 L R C/M 3
Cor-A-Rosta™ P316L	M21/C1	0.03	1.3	0.5	19.0	12.0	-	2.7	-	A5.22	E316LT1-1/-4	ISO 17663-A	T 19 12 3 L P C/M 2
Cor-A-Rosta™ 309L	M21/C1	0.03	1.3	0.6	24.0	12.5	-	-	-	A5.22	E309LT0-1/-4	ISO 17663-A	T 23 12 L R C/M 3
Cor-A-Rosta™ P309L	M21/C1	0.04	1.3	0.6	24.0	12.5	-	-	-	A5.22	E309LT1-1/-4	ISO 17663-A	T 23 12 L P C/M 2
Cor-A-Rosta™ 309MoL	M21/C1	0.03	1.3	0.6	23.0	12.8	-	2.3	-	A5.22	E309LMoT0-1/-4	ISO 17663-A	T 23 12 2 L R C/M 3
Cor-A-Rosta™ P309MoL	M21/C1	0.03	0.8	0.6	22.7	12.5	-	2.3	-	A5.22	E309LMoT1-1/-4	ISO 17663-A	T 23 12 2 L P C/M 2
Cor-A-Rosta™ 4462	M21	0.03	1.2	0.7	23.0	9.2	-	3.1	0.12	A5.22	E2209T0-4	ISO 17663-A	T 22 9 3 N L R M 3
Cor-A-Rosta™ P4462	M21	0.03	1.2	0.7	23.0	9.2	-	3.1	0.12	A5.22	E2209T1/-4	ISO 17663-A	T 22 9 3 N L P C/M 2
Cor-A-Rosta™ 2509	M21	0.03	1.2	0.6	23.0	9.3	-	3.1	0.13	A5.22	E2209T0-4	ISO 17663-A	T 22 9 3 N L R M 3
Cor-A-Rosta™ P2509	M21	0.03	1.2	0.6	23.0	9.2	-	3.1	0.13	A5.22	E2209T1-4	ISO 17663-A	T 22 9 3 N L P C/M 2

SELF SHIELDING FLUX CORED WIRES FOR HARDFACING APPLICATIONS

Product name	Chemical composition (typical values) in %								AWS		EN/ISO	
	C	Mn	Si	Cr	Mo	Al	W	Ni				
Lincore® 33	0.15	2.0	0.7	2.0	-	1.6	-	-	DIN 8555	MF1-GF-350-GPS	EN 14700	T Fe 1
Lincore® 40-O	0.2	1.5	0.7	3.5	0.4	1.8	-	-	DIN 8555	MF1-GF-400-GPS		
Lincore® 50	2.2	1.2	1.0	11.0	0.5	0.6	-	-	DIN 8555	MF6-GF-50-GP		
Lincore® 55	0.45	1.4	0.55	5.3	0.8	1.4	-	-	DIN 8555	MF2-GF-55-GP		
Lincore® 60-O	4.2	1.6	1.3	25.4	-	0.6	-	-	DIN 8555	MF10-GF-60-CG		
Lincore® T&D	0.65	1.5	0.8	7.0	1.4	1.8	1.6	-	DIN 8555	MF4-GF-60-S		
Lincore® 15CrMn	0.4	15.0	0.25	16.0	-	-	-	-	DIN 8555	MF7-GF-250-KP		
Lincore® 420 ø 1.6	0.5	1.7	1.7	11	-	-	-	-	DIN 8555	MF6-GF-55-CGR		
ø 2.0	0.5	1.4	0.7	11	-	-	-	-	DIN 8555	MF6-GF-55-CGR		
Lincore® M	0.6	13.0	0.4	4.9	-	-	-	0.5	DIN 8555	MF6-GF-45-KP		

SAW WIRES FOR MILD STEEL

Product name	Chemical composition (typical values) in %					AWS		EN/ISO	
	C	Mn	Si	P	S				
L-60	0.09	0.5	0.06	-	-	A5.17	EL12	EN 756	S1
LNS 135	0.1	1.0	0.10	0.015	0.015	A5.17	EM12	EN 756	S2
L-61	0.1	1.0	0.25	-	-	A5.17	EM12K	EN 756	S2Si
L-50M (LNS 133U)	0.1	1.6	0.25	-	-	A5.17	EH12K	EN 756	S3Si

SAW WIRES FOR LOW ALLOY STEEL

Product name	Chemical composition (typical values) in %									AWS		EN/ISO	
	C	Mn	Si	P	S	Cr	Ni	Mo	Cu				
L-70	0.10	0.9	0.10	-	-	-	-	0.5		A5.23/A5.23M	EA1	EN 756	S2 Mo
LNS 140A	0.10	1.0	0.10	-	-	-	-	0.5		A5.23/A5.23M	EA2	EN 756	S2 Mo
LNS 140TB (LA 81)	0.06	1.1	0.20	-	-	-	-	0.5		A5.23/A5.23M	EG	EN 756	SZ
LNS 150 (LA 92)	0.13	0.8	0.15	<0.010	-	1.2	-	0.5		A5.23/A5.23M	EB2R	ISO 21952-A	Cr Mo1
LNS 151 (LA 93)	0.10	0.6	0.15	<0.010	-	2.6	-	1.0		A5.23/A5.23M	EB3R	ISO 21952-A	Cr Mo2
LNS 160	0.10	1.1	0.15	-	-	-	1.0	-		A5.23/A5.23M	ENi1	EN 756	S2 Ni1*
LNS 162	0.10	1.1	0.15	-	-	-	2.2	-		A5.23/A5.23M	ENi2	EN 756	S2 Ni2*
LNS 163	0.10	1.0	0.25	-	-	0.2	0.7	-	0.5	A5.23/A5.23M	EG	EN 756	S2 Ni1Cu
LNS 164 (LA 84)	0.10	1.6	0.10	-	-	-	0.9	0.5		A5.23/A5.23M	EF3	EN 756	S3 Ni1Mo
LNS 165 (LA 85)	0.10	1.4	0.20	-	-	-	1.0	0.2		A5.23/A5.23M	ENi5	EN 756	SZ
LNS 167	0.13	1.0	0.20	-	-	-	0.9	0.6		A5.23/A5.23M	EF1*	EN 756	S2 Ni1Mo
LNS 168	0.10	1.6	0.15	-	-	0.7	2.3	0.6			-	ISO 26304-A	S3 Ni2.5CrMo
LA 100	0.05	1.7	0.45	<0.010	<0.010	-	1.9	0.45		A5.23/A5.23M	EM2	EN 756	SZ
LNS 9Cr	0.12	0.6	0.30	-	-	8;8	0.7	1.0		A5.23/A5.23M	EB9	ISO 1952-A	S CrMo91
LNS 175	0.08	1.0	0.10	-	-	-	3.5	-		A5.23/A5.23M	ENi3	EN 756	S2Ni3
LNS T55 **	0.06	1.5	0.60	<0.012	<0.010	-	-	-		A5.17/A5.17M	EC1 H4	EN 756	SZ H5
LNS T690**	0.08	1.7	0.60	<0.020	<0.015		1.8	0.5		A5.23/A5.23M	ECM3 H4	EN 756	SZ

* for deviations consult corresponding data sheet
** flux cored wires

SAW WIRES FOR STAINLESS STEEL

Product name	Chemical composition (typical values) in %										AWS		EN/ISO	
	C	Mn	Si	Cr	Ni	Mo	Nb	N	Others	Mat.Nr.				
LNS 304L	0.015	1.8	0.4	20	10	0.1	-	-	-	1.4316	A5.9/A5.9M	ER308L	ISO 14343-A	S 19 9 L
LNS 304H	0.05	1.2	0.6	20.1	10.5	-	-	-	-	1.4948	A5.9/A5.9M	ER308H	ISO 14343-A	S 19 9 H
LNS 307	0.07	7.0	0.6	19.0	8.9	-	-	-	-	1.4370	A5.9/A5.9M	ER307	ISO 14343-A	S 18 8 Mn
LNS 309L	0.01	1.8	0.4	23.4	13.8	0.07	-	-	-	1.4332	A5.9/A5.9M	ER309L	ISO 14343-A	S 23 12 L
LNS 316L	0.015	1.75	0.4	18.5	12	2.75	-	-	-	1.4430	A5.9/A5.9M	ER316L	ISO 14343-A	S 19 12 3 L
LNS 318	0.04	1.8	0.4	19.5	11.3	2.6	0.5	-	-	1.4576	A5.9/A5.9M	ER318	ISO 14343-A	S19 12 3 Nb
LNS 329	0.09	1.8	1.2	25.5	5.6	-	-	-	-	-		-	ISO 14343-A	S 25 4
LNS 347	0.03	1.6	0.4	19.5	9.7	0.1	0.6	-	-	1.4451	A5.9/A5.9M	ER347	ISO 14343-A	S 19 9 Nb
LNS 4455	0.01	7.0	0.4	20	16	2.7	-	0.16	-	1.4455		-	ISO 14343-A	S 20 16 3 Mn L
LNS 4462	0.015	1.6	0.5	23	8.6	3.1	-	0.16	-	1.4462	A5.9/A5.9M	ER2209	ISO 14343-A	S 22 9 3 N L
LNS 4500	0.01	1.8	0.3	20	25.2	4.6	-	-	Cu=1.5	1.4539	A5.9/A5.9M	ER385	ISO 14343-A	S 20 25 5 Cu L
LNS Zeron 100X	0.02	0.7	0.3	25	9.3	3.7	-	0.23	Cu=0.6	1.4410	A5.9/A5.9M	ER2594	ISO 14343-A	S 25 9 4 N L
									W=0.6					

SAW WIRES FOR NICKEL ALLOYS

Product name	Chemical composition (typical values) in %									AWS		EN/ISO	
	C	Mn	Si	Cr	Ni	Mo	Nb	Others	W.Nr.				
LNS NiCro 60/20	0.05	0.02	0.1	22	65	8.7	3.7	Fe=0.1	2.4831	A5.14/A5.14M	ERNiCrMo-3	ISO 18274	S Ni 6625
LNS NiCroMo 60/16	0.006	0.5	0.04	16.0	58	16		W=3.6	2.4886	A5.14/A5.14M	ERNiCrMo-4	ISO 18274	S Ni 6276

PIPELINER RANGE

Product name	Chemical composition (typical values) in %									AWS		EN/ISO	
	C	Mn	Si	Ni	Mo	P	S	Cr	Al				
PIPELINER® 6P+	0.11	0.55	0.18	-	-	0.009	0.009	-	-	A5.1	E6010	ISO 2560-A	E 42 3 C 25
PIPELINER® 8P+	0.17	0.7	0.25	0.8	0.2	0.01	0.01	-	-	A5.5	E8010-P1	ISO 2560-A	E 46 4 1Ni C 25
PIPELINER® 16P	0.06	1.3	0.5	-	-	0.013	0.009	-	-	A5.1	E7016 H4	ISO 2560-A	E 42 3 B 12 H5
PIPELINER® 18P	0.05	1.5	0.5	0.95	-	0.010	0.005	-	-	A5.5	E8018-G-H4R	ISO 2560-A	E 50 6 Mn1Ni B 32 H5
PIPELINER® LH-D80	0.05	1.15	0.45	-	-	0.010	0.010	-	-	A5.5	E8048-P2 H4R	ISO 2560-A	E 46 4 Z 1Ni B 45 H5
PIPELINER® LH-D90	0.05	1.30	0.50	0.90 (4.0 & 4.5mm)	0.2	0.010	0.010	-	-	A5.5	E8010-45-P2 H4R	ISO 18275	E 55 4 ZB 45 H5
				0.25 (3.2mm)									
PIPELINER® LH-D100	0.05	1.55	0.50	0.9	0.45	0.010	0.010	-	-	A5.5	E10045-P2 H4R	ISO 18275	E 69 15 GA H5
PIPELINER® 70S-G	0.07	1.25	0.55	-	-	0.010	0.020	-	-	A5.18	ER70S-G	ISO 14341	G 38 3 M G2Si / G 38 3 C G2Si
PIPELINER® 80S-G	0.09	1.72	0.61	-	0.45	0.012	0.007	-	-	A5.18	ER80S-G	ISO 14341	G 50 3 M G4Si1
PIPELINER® G70M	0.05	1.60	0.45	0.36	-	0.013	0.011	-	-	A5.20/A5.20M	E71T-1M-JH8 / E71T-9M-JH8	EN 758	T 46 4 P M 2 H10
PIPELINER® G70M-E	0.05	1.45	0.20	0.95	0.15	0.013	0.010	-	-	A5.29/A5.29M	E81T1-GM-H4	EN 758	T 50 5 Z P M 2 H5
PIPELINER® G80M	0.04	1.75	0.40	1.0	0.25	0.020	0.010	0.11	-	A5.29/A5.29M	E101T1-G-H8	EN 12535	T 62 3 P M 2 H10
PIPELINER® G80M-E	0.06	1.40	0.30	0.95	0.40	0.013	0.010	-	-	A5.29/A5.29M	E91T1-GM-H4	ISO 18276-A	T 55 4 Z P M 2 H5
PIPELINER® G90M-E	0.06	1.50	0.20	2.0	0.50	0.015	0.010	-	-	A5.29/A5.29M	E1111T1-GM-H4	ISO 18276-A	T 69 4 Z P M 2 H5
PIPELINER® NR®-207+	0.04	1.22	0.25	0.82	-	0.010	0.010	-	1.1	A5.29/A5.29M	E71T8-K6		

	Covered electrodes	TIG rods	MIG/MAG wires	Gas shielded flux-cored wires	Self shielded flux-cored wires	SAW wires / flux	
1	Fleetweld 5P+				Innershield NR204-H, NR207-H		1
2	Supra				Innershield NR204-H, NR207-H		2
3	Panta						3
4	Pantafix						4
5	Omnia				Innershield NR-211-MPE		5
6	Omnia 46				Innershield NR-232		6
7	Omnia 46+				Innershield NR-233		7
8	Cumulo					L-60, L-61, LNS 135	8
9	Universalis					combined with flux	9
10	Ferrod 165A			Outershield 70-H	Innershield NR-232	761, 780, 781, 782, 960, 980	10
11	Ferrod 135T			Outershield 71E-H	Innershield NR-311		11
12	Ferrod 160T			Outershield 71M-H	Innershield NS-3ME		12
13	Gonia 180		LNM 25	Outershield MC700			13
14	Baso 48SP		LNM 26	Outershield MC710-H			14
15	Baso 49		LNM 27	Outershield MC710C-H			15
16	Baso 51P	LNT 25, LNT 26	SupraMIG	Outershield 71C			16
17	Baso 100		SupraMIG Ultra	Outershield MC715-H			17
18	Baso 120			Outershield MC460VD-H	Innershield NR-203Ni		18
19	Baso G			Outershield T55-H	Innershield NR-203NiC		19
20	Baso 26V				Innershield NR-204-H		20
21	Conarc 48				Innershield NR-207-H		21
22	Conarc 49				Innershield NR-208-H		22
23	Conarc 49C				Innershield NR-400		23
24	Conarc 51						24
25	Conarc 52					L-61, L50M (LNS 133U), LNS 140A (L-70), LNS T-55	25
26	Conarc 53					combined with flux	26
27	Lincoln 7018-1					860, 960, 8500, 888, P223, P230, P240	27
28	Conarc L150						28
29	Conarc V180						29
30	Conarc V250						30
31	Kardo				Innershield NR-203NiC		31

	Covered electrodes	TIG rods	MIG/MAG wires	Gas shielded flux-cored wires	Self shielded flux-cored wires	SAW wires / flux	
1	Shield Arc HYP+	LNT 25, LNT 26	LNM 25, LNM 26	Outershield 71E-H	Innershield NR204-H, NR208-H	LNS 135, LNS 140A (L-70) with flux 780, 860, P230	1
2	Shield Arc 70+	LNT Ni1	LNM Ni1	Outershield 81Ni1-H/HSR	Innershield NR204-H, NR208-H		2
3	Shield Arc 6P+					LNS 140A (L-70) with flux P230, P240, 8500, 888	3
4	Shield Arc 7P+						4
5	Shield Arc 8P+						5
6	Conarc 55CT	LNT 28	LNM 28	Outershield 500CT-H		LNS 163 with flux 960	6
7	Conarc 60G	LNT Ni1	LNM Ni1, LNM 28	Outershield 81K2-H/HSR	Innershield NR-450-H	LNS 164 with flux P240, 8500, 888	7
8	Conarc 70G	LNT Ni2.5	LNM Ni2.5	Outershield 91K2-HSR			8
9	Conarc 74						9
10	Conarc 80	-	-	Outershield 690-H/HSR		LNS 168,LNS T690 with flux P230, P240, 8500, 888	10
11	Conarc 85	-	LNM MoNiVa				11
12	Kryo 1	LNT Ni1	LNM Ni1	Outershield 81Ni1-H/HSR	Innershield NR-203Ni1	LNS 160, LNS 165 with flux P230, P240, 8500, 888	12
13	Kryo 1N				Innershield NR-203Ni-C		13
14	Kryo 1P				Innershield NR-400		14
15	Kryo 2	LNT Ni2.5	LNM Ni2.5	Outershield 81K2-H/HSR	Innershield NR-450-H		15
16	Kryo 3	LNT Ni2.5	LNM Ni2.5	-	-	LNS 162 with flux P230, P240, 8500, 888	16
17	Kryo 4				-	L-70 with flux P240, 8500, 888	17
18	SL 12G	LNT 12	LNM 12	Outershield 12-H	-	LNS 140A with flux 860, P230	18
19	SL 19G	LNT 19	LNM 19	Outershield 19-H	-	LNS 150 with flux P230, P240, 8500, 888	19
20	SL 19G(STC)	LNT 19	LNM 19	-	-	-	20
21	SL 20G	LNT 20	LNM 20	Outershield 20-H	-	LNS 151 with flux P230, P240, 8500, 888	21
22	SL 20G(STC)	LNT 20	LNM 20	-	-	-	22
23	SL 22G	-	-	-	-	-	23
24	SL 502	LNT 502	-	-	-	LNS 502 with flux P230, P240, 8500	24
25	SL 9Cr(P91)	LNT 9Cr(P91)	-	-	-	-	25

	Covered electrodes	TIG rods	MIG/MAG wires	Gas shielded flux-cored wires	Self shielded flux-cored wires	SAW wires / flux	
1	Arosta 304L	LNT 304LSi, Lincoln TIG 308LSi	LNM 304LSi, Lincoln MIG 308LSi	Cor-A-Rosta (P)304L	-		1
2	Limarosta 304L			Cor-A-Rosta 304L	-		2
3	Vertarosta 304L			Cor-A-Rosta P304L	-	LNS 304L with flux P2007	3
4	Jungo 304L	LNT 304L Lincoln TIG 308L	LNM 304L	Cor-A-Rosta (P)304L	-		4
5	Limarosta 304L-130	LNT 304LSi, Lincoln TIG 308LSi	LNM 304LSi, Lincoln MIG 308LSi	Cor-A-Rosta 304L	-		5
6	Arosta 347	LNT 347	LNM 347	Cor-A-Rosta 347	-	LNS 347 with flux P2007	6
7	Jungo 347			-	-		7
8	Arosta 316L / LP	LNT 316LSi, Lincoln TIG 316LSi	LNM 316LSi, Lincoln MIG 316LSi	Cor-A-Rosta (P)316L	-		8
9	Limarosta 316L			Cor-A-Rosta 316L	-		9
10	Vertarosta 316L			Cor-A-Rosta P316L	-	LNS 316L with flux P2007	10
11	Jungo 316L	LNT 316L, Lincoln TIG 316L	LNM 316L Lincoln MIG 316L	Cor-A-Rosta (P)316L	-		11
12	Limarosta 316L-130	LNT 316LSi, Lincoln TIG 316LSi	LNM 316LSi, Lincoln MIG 316LSi	Cor-A-Rosta 316L	-		12
13	Arosta 318	LNT 318Si	LNM 318Si	-	-	LNS 318 with flux P2007	13
14	Jungo 318L			-	-		14
15	Jungo 4439	LNT 4439Mn	LNM 4439Mn	-	-	LNS 4439Mn with flux P2007	15
16	Jungo 4455	LNT 4455	LNM 4455	-	-	LNS 4455 with flux P2007	16
17	Jungo 4465	LNT 4465	LNM 4465	-	-	LNS 4465 with flux P2007	17
18	Jungo 4500	LNT 4500	LNM 4500	-	-	LNS 4500 with flux P2007	18
19	Arosta 4462	LNT 4462	LNM 4462	Cor-A-Rosta (P)4462	-	LNS 4462 with flux P2007, P2000S	19
20	Jungo 4462				-		20
21	Jungo Zeron 100X	LNT Zeron 100X	LNM Zeron 100X		-	LNS Zeron 100X with flux P2000S, P2007, P7000	21
22	Jungo 309L	LNT 309LSi, Lincoln TIG 309LSi	LNM 309LSi, Lincoln MIG 309LSi		-	LNS 309L with flux P2007, P2000S	22
23	Arosta 309S			Cor-A-Rosta (P)309L	-		23
24	Limarosta 309S			Cor-A-Rosta 309L	-		24
25	Arosta 309Nb	-	-		-	-	25
26	Arosta 309Mo	-	-	Cor-A-Rosta (P)309(Mo)L	-	-	26
27	Nichroma	LNT 309LSi, Lincoln TIG 309LSi	LNM 309LSi, Lincoln MIG 309LSi		-	LNS 309L with flux P2007, P2000S	27
28	Nichroma 160				-		28
29	Arosta 329	-	-	-	-	LNS 329 with flux P2007	29
30	Limarosta 312	-	-	-	-	-	30
31	Arosta 307	LNT 307	LNM 307, Lincoln MIG 307	-	-	LNS 307 with flux P2007, P2000S	31
32	Arosta 307-160			-	-		32
33	Jungo 307		-	-	-		33
34	Arosta 304-H	LNT 304-H	LNM 304-H, LNM 309-H	-	-	LNS 304H, LNS 309-H with flux P2007	34
35	Arosta 309-H	-	-	-	-	-	35
36	Intherma 310 / 310B	LNT 310	LNM 310	-	-	LNS NiCro 60/20 with flux P20007, P2000, P7000	36

	Covered electrodes	TIG rods	MIG/MAG wires	Gas shielded flux-cored wires	Self shielded flux-cored wires	SAW wires / flux	
Copper & Nickel base alloys							
1	Nicro 31/27	-	-	-	-	-	1
2	Nicro 60/20	LNT Nicro 60/20	LNM Nicro 60/20	-	-	LNS NiCro 60/20 with flux P2007, P7000	2
3	Nicro 70/15			-	-	-	3
4	Nicro 70/15Mn	LNT Nicro 70/19	LNM Nicro 70/19	-	-	-	4
5	Nicro 70/19			-	-	-	5
6	NicroMo 59/23	LNT NicroMo 59/23	-	-	-	-	6
7	NicroMo 60/16	LNT NicroMo 60/16	-	-	-	LNS NiCroMo 60/16 with flux P2007	7
8	-	LNT NiTi	LNM NiTi	-	-	-	8
9	Nicu 70/30	LNT NiCu 70/30	LNM NiCu 70/30	-	-	-	9
10	Nyloid 2	LNT Nicro 60/20	LNM Nicro 60/20	-	-	LNS NiCro 60/20 with flux P2007	10
11	-	LNT CuNi 30	LNM CuNi 30	-	-	-	11
12	-	-	LNM CuSn	-	-	-	12
13	-	LNT CuSn6	LNM CuSn6	-	-	-	13
14	-	-	LNM CuSn12	-	-	-	14
15	-	LNT CuSi3	LNM CuSi3	-	-	-	15
16	-	LNT CuAl8	LNM CuAl8	-	-	-	16
17	-	-	LNM CuAl8Ni2	-	-	-	17
18	-	-	LNM CuAl8Ni6	-	-	-	18
Aluminium alloys							
1	Al99.8	LNT Al99.5	LNM Al99.5	-	-	-	1
2	AlMn	-	-	-	-	-	2
3	-	LNT Al99.5	LNM Al99.5	-	-	-	3
4	-	LNT AlMg3	LNM AlMg3	-	-	-	4
5	-	LNT AlMg5, Superglaze TIG 5356	LNM AlMg5, Superglaze MIG 5356	-	-	-	5
6	-	LNT AlMg4.5Mn, Superglaze TIG 5183	LNM AlMg4.5Mn, Superglaze MIG 5183	-	-	-	6
7	-	LNT AlMg4.5MnZr	LNM AlMg4.5MnZr	-	-	-	7
8	-	LNT AlSi5, Superglaze TIG 4043	LNT AlSi5, Superglaze MIG 4043	-	-	-	8
9	-	LNT AlSi12	LNM AlSi12	-	-	-	9

	Covered electrodes	TIG rods	MIG/MAG wires	Gas shielded flux-cored wires	Self shielded flux-cored wires	SAW wires / flux	
Cast iron							
1	Reptec Cast 1	LNT NiTi	LNM NiTi	-	-	-	1
2	Reptec Cast 3	-	LNM NiFe	-	-	-	2
3	Reptec Cast 31	-	LNM NiFe	-	-	-	3
Hardfacing applications							
1	Wearshield BU 30	-	-	-	Lincore 33	Lincore 30-S with flux 801	1
2	Wearshield Mangjet (e)	-		-	-	-	2
3	Wearshield 15CrMn	-	-	-	Lincore 15CrMn	-	3
4	Wearshield MM40	-	LNM 4M	-	Lincore 40-0	-	4
5	Wearshield MM	-	-	-	Lincore 55	-	5
6	Wearshield T&D	-	-	-	Lincore T&D	-	6
7	Wearshield MI(e)	-	-	-	Lincore 50, Lincore 55	Lincore 50 with flux 801	7
8	Wearshield ABR	-	-	-		-	8
9	Wearshield 44	-	-	-	Lincore 60-0	-	9
10	Wearshield ME(e)	-	-	-		L-60 with flux HS60	10
11	Wearshield 60 (e)	-	-	-		-	11
12	Wearshield 50M	-	-	-	-	-	12
13	Wearshield 70	-	-	-	Lincore 65-0	-	13
14	Wearshield 420	-	LNM 420FM	-	Lincore 420	L-60 with flux 802	14
15	Wearshield 34	-	-	-	-	-	15
Repair applications							
1	Reptec 126	-	LNM 307	-	-	LNS 307 with flux P2007, P2000S	1
2	Reptec Cast 1	LNT NiTi	LNM NiTi	-	-	-	2
3	Reptec Cast 3		LNM NiFe	-	-	-	3
4	Reptec Cast 31		LNM NiFe	-	-	-	4