

Description

Ferrite, martensite, duplex, austénite, super austénite, aciers réfractaires et résistants à la chaleur, aciers spéciaux

	Nuance	Outokumpu	C [max. %]	Si [max. %]	Mn [max. %]	P [max. %]	S [max. %]	N [max. %]	Cr [%]	Mo [%]	Cu [%]	Ni [%]	Autres [%]	Moyen PRE
Ferrite	1.4000	4000	0.08	1.00	1.00	0.040	0.015*	-	12.0 - 14.0	-	-	-	-	13
	1.4003	4003	0.030	1.00	1.50	0.040	0.015*	0.030	10.5 - 12.5	-	-	0.30 - 1.00	-	12
	1.4016	4016	0.08	1.00	1.00	0.040	0.015*	-	16.0 - 18.0	-	-	-	Ti 0.10 - 0.60	17
	1.4509	4509	0.030	1.00	1.00	0.040	0.015	-	17.5 - 18.5	-	-	-	Nb: [3xC+0.30] à 1.00	18
	1.4510	-	0.05	1.00	1.00	0.040	0.015*	-	16.0 - 18.0	-	-	-	[4x(C+N)+0.15] à 0.80	17
	1.4512	-	0.030	1.00	1.00	0.040	0.015	-	10.5 - 12.5	-	-	-	6x(C+N) à 0.65	11
	1.4520	-	0.025	0.50	0.50	0.040	0.015	0.015	16.0 - 18.0	-	-	-	0.30 - 0.60	17
Martensite	1.4521	4521	0.025	1.00	1.00	0.040	0.015	0.030	17.0 - 20.0	1.80 - 2.50	-	-	[4x(C+N)+0.15] à 0.80	26
	1.4005	4005	0.08 - 0.15	1.00	1.50	0.040	0.15 - 0.35	-	12.0 - 14.0	≤ 0.60	-	-	-	13
	1.4006	4006	0.08 - 0.15	1.00	1.50	0.040	0.015*	-	11.5 - 13.5	-	-	≤ 0.75	-	13
	1.4021	4021	0.16 - 0.25	1.00	1.50	0.040	0.015*	-	12.0 - 14.0	-	-	-	-	13
	1.4028	4028	0.26 - 0.35	1.00	1.50	0.040	0.015*	-	12.0 - 14.0	-	-	-	-	13
	1.4034	4034	0.43 - 0.50	1.00	1.00	0.040	0.015*	-	12.5 - 14.5	-	-	-	-	14
	1.4057	-	0.12 - 0.22	1.00	1.50	0.040	0.015*	-	15.0 - 17.0	-	-	1.50 - 2.50	-	16
	1.4104	-	0.10 - 0.17	1.00	1.50	0.040	0.15 - 0.35	-	15.5 - 17.5	0.20 - 0.60	-	-	-	17
	1.4112	-	0.85 - 0.95	1.00	1.00	0.040	0.015*	-	17.0 - 19.0	0.90 - 1.30	-	-	V: 0.07 - 0.12	21
	1.4122	-	0.33 - 0.45	1.00	1.50	0.040	0.015*	-	15.5 - 17.5	0.80 - 1.30	-	≤ 1.00	-	20
	1.4313	4313	0.05	0.70	1.50	0.040	0.015*	≥ 0.020	12.0 - 14.0	0.30 - 0.70	-	3.5 - 4.5	-	15
	1.4418	248 SV	0.06	0.70	1.50	0.040	0.015*	≥ 0.020	15.0 - 17.0	0.80 - 1.50	-	4.0 - 6.0	-	19
Duplex	1.4542	-	0.07	0.70	1.50	0.040	0.015*	-	15.0 - 17.0	≤ 0.60	3.0 - 5.0	3.0 - 5.0	Nb: 5xC à 0.45	16
	1.4162	LDX 2101	0.040	1.00	4.0 - 6.0	0.040	0.030	0.20 - 0.25	21.0 - 22.0	0.10 - 0.80	0.10 - 0.80	1.35 - 1.70	-	26
	1.4362	2304	0.030	1.00	2.0	0.035	0.015	0.05 - 0.20	22.0 - 24.0	0.10 - 0.60	0.10 - 0.60	3.5 - 5.5	-	27
	1.4410	SAF 2507	0.030	1.00	2.0	0.035	0.015	0.24 - 0.35	24.0 - 26.0	3.00 - 4.50	-	6.0 - 8.0	-	42
	1.4460	-	0.05	1.00	2.0	0.035	0.015*	0.05 - 0.20	25.0 - 28.0	1.30 - 2.00	-	4.5 - 6.5	-	34
	1.4462	2205	0.030	1.00	2.0	0.035	0.015	0.10 - 0.22	21.0 - 23.0	2.50 - 3.50	-	4.5 - 6.5	-	34
	1.4501	4501	0.030	1.00	1.0	0.035	0.015	0.20 - 0.30	24.0 - 26.0	3.0 - 4.0	0.50 - 1.00	6.0 - 8.0	W: 0.50 - 1.00	41

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Austénite	1.4310	4310	0.05 – 0.15	2.00	2.00	0.045	0.015	0.11	16.0 – 19.0	-	-	6.0 – 9.5	-	18
	1.4318	4318	0.030	1.00	2.00	0.045	0.015	0.10 – 0.20	16.5 – 18.5	-	-	6.0 – 8.0	-	20
	1.4372	4372	0.15	1.00	5.5 – 7.5	0.045	0.015	0.05 – 0.25	16.0 – 18.0	-	-	3.5 – 5.5	-	19
	1.4301	4301	0.07	1.00	2.00	0.045	0.015*	0.11	17.5 – 19.5	-	-	8.0 – 10.5	-	19
	1.4303	4303	0.06	1.00	2.00	0.045	0.015*	0.11	17.0 – 19.0	-	-	11.0 – 13.0	-	19
	1.4305	4305	0.10	1.00	2.00	0.045	0.15 – 0.35	0.11	17.0 – 19.0	-	≤ 1.00	8.0 – 10.0	-	19
	1.4306	4306	0.030	1.00	2.00	0.045	0.015*	0.11	18.0 – 20.0	-	-	10.0 – 12.0	-	20
	1.4307	4307	0.030	1.00	2.00	0.045	0.015*	0.11	17.5 – 19.5	-	-	8.0 – 10.5	-	19
	1.4311	4311	0.030	1.00	2.00	0.045	0.015*	0.12 – 0.22	17.5 – 19.5	-	-	8.5 – 11.5	-	21
	1.4315	4315	0.06	1.00	2.00	0.045	0.015	0.12 – 0.22	18.0 – 20.0	-	-	8.0 – 11.0	-	22
	1.4541	4541	0.08	1.00	2.00	0.045	0.015*	-	17.0 – 19.0	-	-	9.0 – 12.0	5xC à 0.70	18
	1.4550	4550	0.08	1.00	2.00	0.045	0.015	-	17.0 – 19.0	-	-	9.0 – 12.0	Nb: 10xC à 1.00	18
	1.4567	4567	0.04	1.00	2.00	0.045	0.015*	0.11	17.0 – 19.0	-	3.0 – 4.0	8.5 – 10.5	-	19
	1.4401	4401	0.07	1.00	2.00	0.045	0.015*	0.11	16.5 – 18.5	2.00 – 2.50	-	10.0 – 13.0	-	26
	1.4404	4404	0.030	1.00	2.00	0.045	0.015*	0.11	16.5 – 18.5	2.00 – 2.50	-	10.0 – 13.0	-	26
	1.4406	4406	0.030	1.00	2.00	0.045	0.015*	0.12 – 0.22	16.5 – 18.5	2.00 – 2.50	-	10.0 – 12.5	-	28
	1.4408	-	0.07	1.00	1.50	0.045	0.030	-	18.0 – 20.0	2.00 – 2.50	-	9.0 – 12.0	-	26
	1.4429	4429 / SKR-4	0.030	1.00	2.00	0.045	0.015	0.12 – 0.22	16.5 – 18.5	2.50 – 3.00	-	10.5 – 14.0	-	29
	1.4432	4432	0.030	1.00	2.00	0.045	0.015*	0.11	16.5 – 18.5	2.50 – 3.00	-	10.5 – 13.0	-	27
Fort. allié	1.4435	4435 / 724L	0.030	1.50	2.00	0.045	0.015*	0.11	17.0 – 19.0	2.50 – 3.00	-	12.5 – 15.0	-	27
	1.4435 BN2	4435	0.030	1.00	2.00	0.045	0.015*	0.11	17.0 – 19.0	2.50 – 3.00	-	12.5 – 15.0	Ti ≤ 0.05	27
	1.4436	4436	0.05	1.00	2.00	0.045	0.015*	0.11	16.5 – 18.5	2.50 – 3.00	-	10.5 – 13.0	-	27
	1.4571	4571	0.08	1.00	2.00	0.045	0.015*	-	16.5 – 18.5	2.00 – 2.50	-	10.5 – 13.5	5xC à 0.70	25
	1.4434	-	0.030	1.00	2.00	0.045	0.015	0.10 – 0.20	16.5 – 19.5	3.00 – 4.00	-	10.5 – 14.0	-	32
	1.4438	4438	0.030	1.00	2.00	0.045	0.015*	0.11	17.5 – 19.5	3.00 – 4.00	-	13.0 – 16.0	-	32
	1.4439	4439	0.030	1.00	2.00	0.045	0.015	0.12 – 0.22	16.5 – 18.5	4.00 – 5.00	-	12.5 – 14.5	-	35
	1.4466	725LN	0.020	0.70	2.00	0.025	0.010	0.10 – 0.16	24.0 – 26.0	2.00 – 2.50	-	21.0 – 23.0	-	34
	1.4539	904L	0.020	0.070	2.00	0.030	0.010	0.15	19.0 – 21.0	4.00 – 5.00	1.20 – 2.00	24.0 – 26.0	-	37

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Super austénite	1.4529	4529	0.020	0.50	1.00	0.030	0.010	0.15 – 0.25	19.0 – 21.0	6.0 – 7.0	0.50 – 1.50	24.0 – 26.0	-	45	
	1.4547	254 SMO	0.020	0.70	1.00	0.030	0.010	0.18 – 0.25	19.5 – 20.5	6.0 – 7.0	0.50 – 1.00	17.5 – 18.5	-	45	
	1.4562	---	0.015	0.30	2.00	0.020	0.010	0.15 – 0.25	26.0 – 28.0	6.0 – 7.0	1.00 – 1.40	30.0 – 32.0	-	52	
	1.4565	4565	0.030	1.00	5.00 – 7.00	0.030	0.015	0.30 – 0.60	24.0 – 26.0	4.0 – 5.0	-	16.0 – 19.0	Nb: ≤ 0.15	47	
	1.4652	654 SMO	0.020	0.50	2.00 – 4.00	0.030	0.015	0.45 – 0.55	23.0 – 25.0	7.0 – 8.0	0.30 – 0.60	21.0 – 23.0	-	57	
Résistant à la chaleur	ferrite	1.4713	4713	0.12	0.50 – 1.00	1.00	0.015	0.015	-	6.0 – 8.0	-	-	-	Al: 0.50 – 1.00	1)
		1.4724	4724	0.12	0.70 – 1.40	1.00	0.015	0.015	-	12.0 – 14.0	-	-	-	Al: 0.70 – 1.20	1)
		1.4742	4742	0.12	0.70 – 1.40	1.00	0.015	0.015	-	17.0 – 19.0	-	-	-	Al: 0.70 – 1.20	1)
		1.4762	4762	0.12	0.70 – 1.40	1.00	0.015	0.015	-	23.0 – 26.0	-	-	-	Al: 1.20 – 1.70	1)
	Austénite	1.4818	153 MA	0.04 – 0.08	1.00 – 2.00	1.00	0.015	0.015	0.12 – 0.20	18.0 – 20.0	-	-	9.0 – 11.0	Ce: 0.03 – 0.08	1)
		1.4828	4828	0.20	1.50 – 2.50	2.00	0.015	0.015	0.11	19.0 – 21.0	-	-	11.0 – 13.0	-	1)
		1.4833	4833	0.15	1.00	2.00	0.015	0.015	0.11	22.0 – 24.0	-	-	12.0 – 14.0	-	1)
		1.4835	253 MA	0.05 – 0.12	1.40 – 2.50	1.00	0.015	0.015	0.12 – 0.20	20.0 – 22.0	-	-	10.0 – 12.0	Ce: 0.03 – 0.08	1)
		1.4841	4841	0.20	1.50 – 2.50	2.00	0.015	0.015	0.11	24.0 – 26.0	-	-	19.0 – 22.0	-	1)
		1.4845	4845	0.10	1.50	2.00	0.015	0.015	0.11	24.0 – 26.0	-	-	19.0 – 22.0	-	1)
		1.4854	353 MA	0.04 – 0.08	1.20 – 2.00	2.00	0.015	0.015	0.12 – 0.20	24.0 – 26.0	-	-	34.0 – 36.0	Ce: 0.03 – 0.08	1)
		1.4878	4878	0.10	1.00	2.00	0.015	0.015	-	17.0 – 19.0	-	-	9.0 – 12.0	5xC à 0.80	1)
		1.4941	4941	0.04 – 0.08	1.00	2.00	0.015	0.015	-	17.0 – 19.0	-	-	9.0 – 12.0	5xC à 0.80	1)
		1.4948	4948	0.04 – 0.08	1.00	2.00	0.015	0.015	0.11	17.0 – 19.0	-	-	-	-	1)
		1.4950	4950	0.04 – 0.08	0.70	2.00	0.015	0.015	0.11	22.0 – 24.0	-	-	-	-	1)
		1.4951	4951	0.04 – 0.08	0.70	2.00	0.015	0.015	0.11	26.0 – 26.0	-	-	-	-	1)
		Aciers spéciaux	1.3805	3805	0.30 – 0.40	1.00	17.00 – 19.00	0.060	0.030	0.10	-	-	-	≤ 1.00	-
1.964	3964		0.030	1.00	4.00 – 6.00	0.025	0.010	0.20 – 0.35	20.0 – 21.5	3.0 – 3.5	-	15.0 – 17.0	Nb: ≤ 0.25	36	

* pour les produits à usiner, une teneur en soufre réglementée de 0,015 - 0,030% est recommandée (est autorisée).

1) acier non adapté à la corrosion humide

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Les indications dans ce document sont à titre d'information uniquement. Elles ne constituent en aucun cas un engagement contractuel de notre part.

