HOT ROLLED FOR STRUCTURAL USES (UNI EN 10025)

MECHANICAL CHARACTERISTICS AT AMBIENT TEMPERATURE

Quality	Re (MPa)	Rm(MPa)		A80(%) min					A5(%) min
	min	min-max		l/t					l/t
EN10025/2 :2005	t=16	t<3	3=t	t=1	1 =1.5	1.5 =2	2 =2.5	2.5	3=t<40
S235JR	235	360-510	360-510	17/15	18/16	19/17	20/18	21/19	26/24
S235J0	235	360-510	360-510	17/15	18/16	19/17	20/18	21/19	26/24
S235J2	235	360–510	360-510	17/15	18/16	19/17	20/18	21/19	26/24
S275JR	275	430-580	410-560	15/13	16/14	17/15	18/16	19/17	23/21
S275J0	275	430-580	410-560	15/13	16/14	17/15	18/16	19/17	23/21
S275J2	275	430-580	410-560	15/13	16/14	17/15	18/16	19/17	23/21
S355JR	355	510-680	470-630	14/12	15/13	16/14	17/15	18/16	22/20
S355J0	355	510-680	470-630	14/12	15/13	16/14	17/15	18/16	22/20
S355J2	355	510-680	470-630	14/12	15/13	16/14	17/15	18/16	22/20
S355K2	355	510-680	470-630	14/12	15/13	16/14	17/15	18/16	22/20
S450J0	450	-	550-720		-	-	-	-	17
S185	185	310-540	290-510	10/8	11/9	12/10	13/11	14/12	18/16
E295	295	490-660	470-610	12/10	13/11	14/12	15/13	16/14	20/18
E335	335	590-770	570-710	8/6	9/7	10/8	11/9	12/10	16/14
E360	360	690-900	670-830	4/3	5/4	6/5	7/6	8/7	11/10

note:

t = thickness of the laminate in mm

Tensile tests carried out on transverse specimens;

where both test directions are provided, they are indicated with:

l = longitudinal to the rolling direction

t = transversal to the rolling direction

HOT ROLLED FOR STRUCTURAL USES (UNI EN 10025) CHEMICAL COMPOSITION									
Quality	**C (%)**	**Mn (%)**	**P (%)**	**S (%)**	**Si (%)**	**N (%)**	**Cu (%)**	**Altri (%)**	**CEV (%)**
EN10025/2 :2005	max t=16	max	max	max	max	max	max	max	max t=30
S235JR	0.17	1.40	0.035	0.035	-	0.012	0.55	-	0.35
S235J0	0.17	1.40	0.030	0.030	-	0.012	0.55	-	0.35
S235J2	0.17	1.40	0.025	0.025	-	-	0.55	-	0.35
S275JR	0.21	1.50	0.035	0.035	-	0.012	0.55	-	0.40
S275J0	0.18	1.50	0.030	0.030	-	0.012	0.55	-	0.40
S275J2	0.18	1.50	0.025	0.025	-	-	0.55	-	0.40
S355JR	0.24	1.60	0.035	0.035	0.55	0.012	0.55	-	0.45
S355J0	0.20	1.60	0.030	0.030	0.55	0.012	0.55	-	0.45
S355J2	0.20	1.60	0.025	0.025	0.55	-	0.55	-	0.45
S355K2	0.20	1.60	0.025	0.025	0.55	-	0.55	-	0.45
S450J0	0.20	1.70	0.030	0.030	0.55	0.025	0.55	-	0.47
S185			-	-		-			
E295			0.045	0.045		0.012			
E335			0.045	0.045		0.012			
E360			0.045	0.045		0.012			

note:

The norm foresees, for some specific cases, small variations with respect to the table