

## UNI EN 10087

## Material Group, chemical composition

## Chemical composition

Steel name (in mass %)							
Symbol	Number	C	Si	Mn	P	S	Pb
			max		max		
Steel not subjected to heat treatment							
11SMn30	1.0715	00:14	00:05	from 0.90 to 1.30	00:11	from 0.27 to 0.33	-
11SMnPb30	1.0718	00:14	00:05	from 0.90 to 1.30	00:11	from 0.27 to 0.33	from 0.20 to 0.35
11SMn37	1.0736	00:14	00:05	from 1.00 to 1.50	00:11	from 0.34 to 0.40	-
11SMnPb37	1.0737	00:14	00:05	from 1.00 to 1.50	00:11	from 0.34 to 0.40	from 0.20 to 0.35
Steels for case-hardening							
10S20	1.0721	from 0.07 to 0.13	00:40	from 0.70 to 1.10	00:06	from 0.15 to 0.25	-
10SPb20	1.0722	from 0.07 to 0.13	00:40	from 0.70 to 1.10	00:06	from 0.15 to 0.25	from 0.20 to 0.35
15SMn13	1.0725	from 0.12 to 0.18	00:40	from 0.90 to 1.30	00:06	from 0.08 to 0.18	-
Steels for direct tempering							
35S20	1.0726	from 0.32 to 0.39	00:40	from 0.70 to 1.10	00:06	from 0.15 to 0.25	-
35SPb20	1.0756	from 0.32 to 0.39	00:40	from 0.70 to 1.10	00:06	from 0.15 to 0.25	from 0.15 to 0.35
36SMn14	1.0764	from 0.32 to 0.39	00:40	from 1.30 to 1.70	00:06	from 0.10 to 0.18	-
36SMnPb14	1.0765	from 0.32 to 0.39	00:40	from 1.30 to 1.70	00:06	from 0.10 to 0.18	from 0.15 to 0.35
38SMn28	1.0760	from 0.35 to 0.40	00:40	from 1.20 to 1.50	00:06	from 0.24 to 0.33	-
38SMnPb28	1.0761	from 0.35 to 0.40	00:40	from 1.20 to 1.50	00:06	from 0.24 to 0.33	from 0.15 to 0.35
44SMn28	1.0762	from 0.40 to 0.48	00:40	from 1.30 to 1.70	00:06	from 0.24 to 0.33	-
44SMnPb28	1.0763	from 0.40 to 0.48	00:40	from 1.30 to 1.70	00:06	from 0.24 to 0.33	from 0.15 to 0.35
46S20	1.0727	from 0.42 to 0.50	00:40	from 0.70 to 1.10	00:06	from 0.15 to 0.25	-
46SPb20	1.0757	from 0.42 to 0.50	00:40	from 0.70 to 1.10	00:06	from 0.15 to 0.25	from 0.15 to 0.35