

UNI EN 10130

MECHANICAL CHARACTERISTICS AND CHEMICAL COMPOSITION OF SKIN-PASSED PRODUCTS

Designation			Surface	Absence of running lines	Re MPa ¹	Rm MPa	A80 ² min. %	r90 ³⁻⁴ min.	n90 ³ min.	Chemical composition				
Quality	Numerical Designation	Second definition EN 10020								C max. %	P max. %	S max. %	Mn max. %	Ti max. %
DC01 ⁵	1.0330	NOT ALLOYED ⁶	A	-	280 ⁷⁻⁹	270/410	28	-	-	0,12	0,045	0,045	0,60	-
			B	3 months										
DC03	1.0347	NOT ALLOYED ⁶	A	6 months	240 ⁷	270/370	34	1,3	-	0,10	0,035	0,035	0,45	-
			B	6 months										
DC04	1.0338	NOT ALLOYED ⁶	A	6 months	210 ⁷	270/350	38	1,6	0,180	0,08	0,030	0,030	0,40	-
			B	6 months										
DC05	1.0312	NOT ALLOYED ⁶	A	6 months	180 ⁷	270/330	40	1,9	0,200	0,06	0,025	0,025	0,025	-
			B	6 months										
DC06	1.0873	NOT ALLOYED ⁶	A	No limits	170 ⁸	270/330	41	2,1	0,220	0,02	0,020	0,020	0,25	0,3 ¹⁰
			B	No limits										
DC07	1.0898	NOT ALLOYED ⁶	A	No limits	150 ⁸	250/310	44	2,5	0,230	0,01	0,020	0,020	0,20	0,2 ¹⁰
			B	No limits										

NOTES: 1 MPa = 1 N/ mm²

- 1) When the thickness is less than or equal to 0.7 mm and greater than 0.5 mm, the guaranteed max. yield is to be increased by 20 MPa, while for thicknesses less than or equal to 0.5 mm, it is to be increased by 40 MPa.
- 2) When the thickness is less than or equal to 0.7 mm and greater than 0.5 mm, the guaranteed minimum elongation value should be reduced by 2 units, while for thicknesses less than or equal to 0.5 mm it should be increased by 4 units.
- 3) The r90 and n90 values are only applicable to products with a thickness of 0.5 mm or more.
- 4) When the thickness is more than 2 mm. The r90 value is reduced by 0.2.
- 5) It is recommended that DC01 quality products be used within 6 weeks from the date of availability of the product.
- 6) Unless otherwise agreed in the order, grades DC01, DC03, DC04 and DC05 can be supplied as alloy steels: (e.g. with addition of Boron or Titanium).