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ABSTRACT

The present invention concerns a steel for cold forming and offers excellent resistance to wear by abrasion.

This steel is obtained by the fusion and refining of a steel and is characterised in that the alloy has the following weighted composition :

	Preferred bracket	Wide bracket
	Carbon 1 - 1.20 %	0.80 - 1.50%
10	Manganese 0.30 - 0.50%	< 1%
	Silicon 0.80 - 1%	< 1%
	Phosphorus < 0.020%	≤ 0.030%
	Sulphur ≤ 0.005%	≤ 0.005%
	Chromium 8 - 8.50%	6.25 - 9%
15	Nickel < 0.30	< 0.50%
	Molybdenum 2 - 2.30%	1.80 - 3%
	Aluminum < 200ppm	< 0.15%
	Vanadium 0.20 - 0.40%	0.20 - 0.40%
	Niobium 0.60 - 0.90%	0.60 - 1.5%
20	Nitrogen < 130 ppm	< 150 ppm
	Oxygen < 30 ppm	< 50 ppm
	Titanium or	
	Zirconium 500-1000 ppm	500-1500 ppm

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