

Table 7 — Type of surface finish and process route of semi-finished products, rods and wires, bars, and sections ^a

	Product forms				Tolerances on nominal dimensions ^b	Symbol ^c	Condition		Recommended use and observations
	Semi-finished products	Rods	Wires	Bars, sections			Type of process route	Surface finish	
Hot formed	x	x	-	x	EN 10017, EN 10058, EN 10059, EN 10060, EN 10061	1U	Hot formed, not heat treated, not descaled.	Covered with scale (spot ground if necessary). Not free of surface imperfections.	Suitable for products to be further hot formed.
	x	x	-	x		1C	Hot formed, heat treated ^e , not descaled.		Suitable for products to be further processed (hot or cold).
	x	-	-	x	≥ IT 14 ^d /EN ISO 286-1	1E	Hot formed, heat treated ^e , mechanically descaled ^f	Largely free of scale (but some black spots may remain). Not free of surface imperfections.	
	-	x	-	x	EN 10017, EN 10058, EN 10059, EN 10060, EN 10061	1D	Hot formed, heat treated ^e , pickled, coated (optional).	Free of scale (spot ground if necessary). Not free of surface imperfections.	Products used in their present condition or to be further processed (hot or cold).
	-	-	-	x	≥ IT 12 ^d /EN ISO 286-1	1X ^m	Hot formed, heat treated ^e , rough machined ^g	Free of scale (but some marks left from machining may remain). Not free of surface imperfections.	
	-	x	-	x		1G ^m	Hot formed, heat treated ^e , descaled, rough machined ^g or shaved in the case of rod. Finishing by removal of material ^h .	Appearance bright, but not uniform, Free of surface defects.	Suitable for severe applications (extrusion and/or cold or hot heading). Surface roughness can be specified.