

3.6.2020

459587

Customer's order number 015530		Manufacturer's order number 157844 1		
Customer/consignee Ovako Metals Oy Ab Tuotekatu 3 33840 Tampere		Buyer Ovako Metals Oy Ab Tuotekatu 3 33840 Tampere		
Customer reference number 015530-5130/96-721009				
Product Round bar As rolled Hot rolled, cold drawn		Steel grade IMATRA 550		
		Specification IS 2722.01.05		
Charge 40224	Abbreviation YMA	Diameter/dimensions 40 mm	Tolerance type h09	Reduction ratio 82,83 :1

## CAST ANALYSIS

	C %	SI %	MN %	P %	S %	CR %	NI %	MO %	
Min					0,020				
Result	0,12	0,23	1,14	0,018	0,033	0,21	0,14	0,03	
Max	0,20	0,55	1,60	0,025	0,040				
	V %	TI %	CU %	ALS %	AS %	SN %	B %	CA %	
Min								0,0020	
Result	0,05	0,0009	0,27	0,012	0,008	0,016	0,0002	0,0043	
Max	0,09		0,30						
	N %	NB %	CO %	PB %	W %	SB %	CEV %		
Min									
Result	0,008	0,003	0,015	0,0011	0,008	0,002	0,40		
Max							0,47		

## TENSILE TEST FROM 1/3 RADIUS EN ISO 6892-1

	Rp0.2 MPa	Rm MPa	A 5 %	Z %
Min	500	550	12	
Result	594	609	14	66
Max		750		

This material meets also the requirements of S355J2C+C according to EN 10277:2018  
 Steel production process: Electric Arc Furnace, Vacuum Degassing and Continuous  
 Casting  
 Country of origin: Finland

The products supplied are in compliance with the requirements of the order

This certificate is issued electronically and is valid without a signature

3.6.2020

459587

Customer's order number 015530	Manufacturer's order number 157844 1			
Customer/consignee Ovako Metals Oy Ab Tuotekatu 3 33840 Tampere	Buyer Ovako Metals Oy Ab Tuotekatu 3 33840 Tampere			
Customer reference number 015530-5130/96-721009				
Product Round bar As rolled Hot rolled, cold drawn	Steel grade IMATRA 550			
	Specification IS 2722.01.05			
Charge 40224	Abbreviation YMA	Diameter/dimensions 40 mm	Tolerance type h09	Reduction ratio 82,83 :1

Takala Esa  
Authorized Representative