		MARTENSITIC STAINLESS STEEL Roldamax - ACX 759									
AGERINOX		DESIGNATION EN			ASTM DESIGNATION						
		1.4021			420			ૌોપ	<b>NHI</b>		
		X20Cr13			720						
DESCRIPTION	ACX 759 is Roldan's AISI 420A's development in the Roldamax series. This steel grade belongs to the martensitic family and was developed to connect the good mechanical properties inherent to the martensitic grades with the great machinability of the Roldamax series. Furthermore, the control of its microstructure during its production process allows the achievement of an excellent quality material.										
CHEMICAL	С	Si	Mn	Р	S		Cr	Ni	N	Cu	
COMPOSITION	0.16-0.25	≤1.00	≤1.50	≤0.040	0.022-0	.030 12	2.00-14.00		<0.0025		
APPLICATIONS	ACX 759 of the high machinability ROLDAMAX range is used in all those elements that need specific properties for their machinability and where their excellent mechanical properties are needed: - Shafts - Nuts - Bolts - Gears - Hubs - Accessories for the automotive and aerospace industries										
MECHANICAL		Rp <sub>0.2</sub> (MPa	a) Rm	(MPa)	Elonga	Elongation (%)		Hardness (HB)			
PROPERTIES IN THE ANNEALED STATE (+A) EN10088-3	Wire rod	-		ix 760		-		≤230			
	Bar +QT700	500-600	700	700-1000		> 15		-			
	Bar +QT800	650-700	650-700		> 7		-				
PHYSICAL			ff:signt of								
PROPERTIES	Elasticity modulus	thermal ex	Average coefficient of thermal expansion (20°C-100°C)		nal tivity			I Density			
	215 Gpa	10.5 μm	ı/m-⁰C	30 W/	m∙k	0.55 Ω·mm²/m		7.9 kg/dr	m³		
WELDINGThis grade is not recommended for welding process, as it would lead to fragile welds and low corrosion resistance.MACHINABILITYThe addition of sulphur is used to improve the machinability in martensitic grades, obtaining higher tool life, higher machining speed and better shavings.											
CORROSION RESISTANCE											
SPECIFICATIONS It can be supplied according to international standards 10088-3 and ASTM A-276.											
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