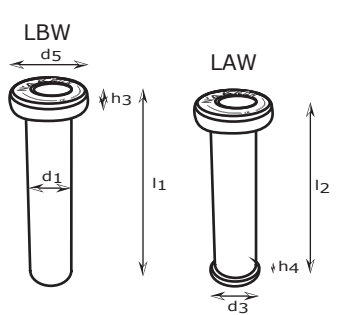


Inspection certificate EN 10204/3.1

Customer	NAKRON STUD			Product	Shear Connectors
Size	SD1 19*175 - A	Standard Dimensions	ISO 13918:2008	Marking	N'AKRON
Material	SWRCH18A	Steel Group 1	Standard	ISO/TR 15608 IN	
Art No.	NKSD11900175	Order No.	NKAB15071345	Quantity	20.160
File No.	SST-15433SD	Delivery note No.	0000000000	Certificate No.	0000000
Sampling Standard	ISO 3269:2000	Testing Standard	ISO 898 - 1:2009	Heat. No.	331503078

Standard Dimensions, mm

Inspection Item	Stud Specifications	Ac/n	Result	Acceptance NO	AQL	Judgment	
	d ₁	18,6 ~ 19,0	18,6	0			
	d ₅	31,7 ~ 32,3	31,7 ~ 32,3	0			
	h ₃	9,5 ~ 11,0	9,5 ~ 11,0	0			
	l ₁	178,0 ~ 181,0	179,0	0			
	l ₂	173,0 ~ 176,0	-	-	-		OK
	-	-	-	-	-		

Other Dimensions See ISO 13918:2008

Thread Tolerance	Go	-	-	-	-
	Not Go	-	-	-	-

Test Results

R _m N/mm ²	A 5	R _{eH} N/mm ²	Z%	J ISO-V	J ISO-U	HB/HV/HRC
Tensile strength	Elongation	Yield stress	Contraction	Impact test	Impact test	Hardness
510~520	18,2~18,6	410~416	56~63	-	-	-

Chemical Composition of Heat

C %	SI %	Mn %	P %	S %	Cr %	Al %	Cu %	Ni %
0,160	0,030	0,760	0,015	0,010	-	0,047	-	-
N %	Mo %	B %	Zn %	Mg %	Ti %	Co %	-	-
-	-	-	-	-	-	-	-	-

Test on semifinished product	√	Test on finished product	-	Analysis on heat	√
Analysis on product	-	Dimensional test passed	√	Visual test passed	√

Data: 26/07/2015