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				/		
		1975.04		/		
		1978.06		/		
		1990.10		/		
		1989.04		/		

		1984.02		/		
		1986.08		/		
		1988.10		/		
		1981.09		/		

1 2010

2 2015

3 2017

4 2018

5 2021

10

A.

400 m²

400m²

600 m²

2000 m²

600 m²

B.

500

NI
EDS XRD
Comsol

1

2

3

4

5

SH5000M

6

7

8 NI

9 /

10



11



12

13 X

XRD

2

3

1

1

2014.06-2018.12

20

2	E690	51801033, 2019.01-2021.12	25
3		2014CB643300 2014.01-2017.01 973	15
4	AerMet100	2015A0313619, 2015.08-2018.08	
5	10	2017.06 2020.06	60
6		2015A02024 2016.01-2017.12 10	
7		2015.09-2017.06 48	
8		2015.03-2017.06	32
9		2016.03-2017.06 25	
10		2017.07-2018.03 91872	14.8
11		2019.12-2021.03 26	
12		2018 7	

13		2017.09-2018.12		4.5
(14)		2017.04-2021.12		4.87
(15)		2017.06-2018.06		4.3
(16) Cr		-		4.03
17				4.2
18		2018.07-2020.07	2	
19	-	2016.10-2017.12	12	
22		2016. -2017.12		14.8

2

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[1] CN201910356697.9

[2] CN201310603771.5

[3] CN201620704522.4

[4] 201820889099.9

[5] 201820727652.9

[6] 201920130970.1

[7] V1.0 2019SR0431896

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Q235

2

3

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