

Scope according to		<input checked="" type="checkbox"/> Directive 2014/68/EU Annex I §4.3	<input type="checkbox"/> EN 764-4	<input type="checkbox"/> AD 2000-Merkblatt W0	<input type="checkbox"/> FPC, Regulation (EU) No. 305/2011(System 2+)							
Manufacturer			Work		Nationality	Date	Page No..					
Company Name: McInnes Rolled Rings			1533 E 12th Street, Erie PA. 16511, USA		USA	Oct. 8, 2020	1	TÜV Rheinland				
Location: 1533 E 12th Street, Erie PA. 16511, USA						Rev.: 4	of : 1	Industrie Service GmbH				
Cur -	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions				Weight max		Technical Specifications Requirements Technical Regulations	Remarks
					Thick-ness mm		Ø mm		1=t / 2=kg			
					from	Up to	from	Up to	↓	result		
1	2	3	4	5	6a	6b	7a	7b	8a	8b	9	10
1. Materials according to international standards (e. g. ASTM, ASME, IBR etc.)												
The use of the materials according to Directive 2014/68/EU is bound to the publication of Harmonized European Standards or to the qualification by a European material approval or to the particular material appraisal. With that the manufacturing reliability for equivalent material grades according to other standards (e.g. BS, AFNOR, ASME) is proved. The requirements and limits of the applicable code respectively the PED must be observed for the use of material grades listed in column 2 to 4.												
1	ASTM A105 / ASME SA105		AR, N, NT, QT	Forging	-	558	-	3,658	2	4,000	ASTM / ASME	a
2	ASTM A266 / ASME SA266	Grades 2, 4	N, NT, QT	Forging	-	558	-	3,658	2	4,000	ASTM / ASME	a
3	ASTM A350 / ASME SA350	Grade LF2	N, NT, QT	Forging	-	558	-	3,658	2	4,000	ASTM / ASME	a
4	ASTM A182 / ASME SA 182	F6A, F22	NT, A	Forging	-	558	-	3,658	2	4,000	ASTM / ASME	a
5	ASTM A182 / ASME SA 182	F51, F60	AT	Forging	-	558	-	3,658	2	4,000	ASTM / ASME	a
6	ASTM A182 / ASME SA 182	F304/F304L	AT	Forging	-	558	-	3,658	2	4,000	ASTM / ASME	a
7	ASTM A182 / ASME SA 182	F316/F316L	AT	Forging	-	558	-	3,658	2	4,000	ASTM / ASME	a
8	ASTM A705 / ASME SA 705	UNS17400	AT	Forging	-	558	-	3,658	2	4,000	ASTM / ASME	a
Remarks		+AT = solution annealed			+NT = normalized and tempered			a = PMA by Pressure Equipment Manufacturer for the use in pressure equipment according to PED 2014/68/EU				
		+AR = as rolled			+QT = quenched and tempered							
		+M = thermo mechanical treated			+S = soft annealed							
		+N = normalized or normalizing formed			+SR = stress relieved							
		+A = annealed										

