

# Product group

## Open-die forgings for nuclear waste management

# Application

## Cask components for transport and storage



### PRODUCT EXAMPLES

- Primary and secondary lid
- Trunnions for handling and lifting

### TREATMENT OPTIONS

Open-die forged, heat-treated, pre-machined, 100% ultrasonically inspected

### MATERIAL

Corrosion and acid-resistant, soft martensitic Cr-Ni-Mo steel from GMH Gruppe production with excellent low-temperature toughness

### MANUFACTURER APPROVALS

- KTA 1401
- VdTÜV-material sheet 395/3

### X3CrNiMo13-4

Standard	DIN EN 10222-5; DIN EN 10250-4 (1.4313); VdTÜV-material sheet 395/3 ASTM/ASME A/SA 182, 473, 479 (F6NM, UNS 41500)								
Chem. composition*	<b>C</b>	<b>Si</b>	<b>Mn</b>	<b>P</b>	<b>S</b>	<b>Cr</b>	<b>Mo</b>	<b>Ni</b>	<b>N</b>
	≤ 0.05	≤ 0.60	0.5-1.0	≤ 0.03	≤ 0.015	12.5-14.0	0.50-0.70	3.5-4.5	≥ 0.02
Properties	<b>QT780</b>								
	DIN EN 10250-4					SWG Reference			
	Rp0,2 (MPa)	≥ 620				680-800			
	Rp0,2 (MPa) 200°C	-				630-730			
	Rm (MPa)	780-980				830-930			
	Rm (MPa) 200°C	-				720-800			
	A5(%)*	≥ 12				17-21			
	CVN (J) RT*	≥ 50				150			
CVN (J) -60°C*	-				≥ 100				

\* transverse

### Your contact

Schmiedewerke Gröditz GmbH

Riesaer Straße 1 | 01609 Gröditz | Germany

T +49 (0)35263 62-0 | vertrieb.swg@gmh-gruppe.de | www.stahl-groeditz.de



Schmiedewerke Gröditz  
**GMH GRUPPE**