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GENERAL VIEW OF PACKING

SCREW

WHEEL HUB

Mount

## TECHNICAL SPECIFICATION № 97-95-2012 FOR SUPPLYING

## MACHINED WHEELS Ø850 mm to Taiwan



Dana J. 41	An Interpripe
Description Standard	machined wheels Ø 850 mm
Drawing	EN 13262, actual release, cat.2
Steel manufacturing way	№ KP-0070-12
	open-hearth process, followed by vacuum degassing or way of continuous casting steel
Steel grade	ER8
Hydrogen contents	not more than 2 ppm
Chemical composition of steel in	C not more 0,56 Cr, Cu, Ni not more 0,30
production, %	Si not more 0,40 Mo not more 0,080
	Mn not more 0,80 V not more 0,08
	P not more 0,020
Mechanical properties	S not more 0,015 Cr+ Ni + Mo not more 0,50  As per standard
anconaincas properies	Rim (Re ≥540; Rm 860-980; A ≥13%)
	H/mm <sup>2</sup> H/mm <sup>2</sup>
	Web ( Rm decrease 1), ≥ 20; A ≥16 %)
	N/mm²
	AVB.
	Decrease in web tensile strength as compared with actual rim tensile strength
	values in the same wheel.
	KU (J) at +20°C (Average value not less 17; Minimum value 12)
	KY(J) at - 20°C (Average value not less 10; Minimum value 5)
Hardness control	100 % wheels acc. to p. F.4.2. EN 13252
Hardness distribution over surface	30 HB in a batch
Hardness over rim profile	p. «B»; not less than 245 HB at 35 mm depth from wheel naminal diameter of
	12850 MM. Heat hardening should not have any significant effect on hardens in
	I POIN KAN. Maroness in point KAN has to be lower by not less than 40 Mp. se.
Desided	Compared with actual hardness values in point #R%
Residual stress	According to p. F.4.3 EN 13262. Decrease in distance between the marks has to
Ultrasonic test	be not less than 1 mm.
o.t. abomo test	100 % of wheel's rims shall be tested in axial and radial directions defect of 2 mm according to p.3.4.2 EN 13262
Macrostructure	Deep etching method as per ISO 4969: no flakes, laminations, turned-in and
	buried skins, nonmetallic inclusions, shrinkage hole remnants and other metal
	discontinuities are not permitted.
Microstructure	According to ISO 643.
	Grain size has shall be not more than 6. Control to produce on specimens tested in
Nonmetallic inclusions	tension.
MOTHINELANTO INCIUSIONS	According to p.3.4.1. EN 13262. Nonmetallic inclusion grain size shall be as
nclusion types	provided by ISO 4967, Method A
	Thick/thin Thick/thin
	# faulfidant Arm (manifull)
	D (about 1 a)
	C (silicates) 1.5/2
Reheat treatment	Not more than one additional heat treatment and two additional tempering
Poolding web-1	operations.
Vesignal unbalance	Not more than 75 gm
mayness particle test	acc. to p. 3.6.2., EN 13262
action of sulidos	Defects according to p. 3.6 EN 13262 on the elements of the wheel are not
Appearance and dimensions	Control of geometrical parameters of 100% wheels is carried out in accordance
Reheat treatment  Residual unbalance  Magnetic particle test  Juality of surface	(maximum)  A (sulfides)  1,5/2  B (aluminates)  1,5/2  Not more than one additional heat treatment and two additional temper operations.  Not more than 75 gm  acc. to p. 3.6.2., EN 13262  Defects according to p. 3.6 EN 13262 on the elements of the wheel are not allowed.

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Marking	Cold marking shall be spelled to and for a full to the
	Cold marking shall be applied to end face of the hub bore from the inside of wheel
	by symbols height 10+2 mm and depth not less than 0,2 mm. Distance from the
	outer diameter of hub bore to signs symbols 8+2 mm It is not permissible to use stamps with
	keen edges. Marking should be clear and readable from wheel center.
Marking order	Manufacturer's abbreviated name: KLW.
	2. Heat number: 5 symbols. 3. Grade steel; ER8.
	<ol> <li>Date of production: month and 2 last symbols of the year of production</li> <li>Space for inspector's mark.</li> </ol>
	6. Serial number of wheel in a heat; 3 symbols.
Additional marking	Residual unhalance 52 shall be marked a symbols.
	Residual unbalance E2 shall be marked on the end face of hub bore by inside according to his actual position. Unbalance value E2 analogical to basic marking.
Coating and Packing	Mhock are availed in the detail position. Cribatance value EZ arratogical to basic marking.
	Wheels are supplied in metal holders with temporary conservation. Wheels are
	covered with cover which is composition skin forming inhibited «E-Tek 510».
	Cover is applied on all elements of the wheel excluding hole in web. As additional
	protection against corrosion of the wheels during transportation by sea using
	special containers made of reinforced high-strength paper with a woven polyester material.
	Alternative types of coverings/ways of protection can be coordinated before issue of the order in production.
	Manufacturer shall ruprantee compliance of the whole of
Guaranty	Manufacturer shall guarantee compliance of the wheels with requirements of this
	technical specification, provided that operation, storage, transportation and assembly conditions are observed.
	Quality warrant period is 60 months starting from putting in operation transport
	vehicles in which the goods are used, but not more than 72 months of the date of
	delivery.

Showed

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