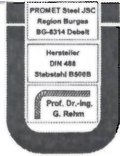


**METINVEST®****PROMET STEEL JSC**

Certificate

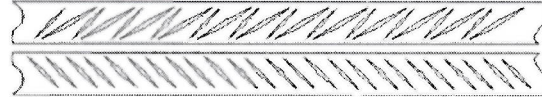
№BAY05-WTB/488-132

MILL TEST CERTIFICATE

№ 09568

In accordance with

EN 10204/3.1:2005

Costumer: VAS - FEMKER KFT**Truck:****Description of Goods** HOT ROLLED STEEL DEFORMED REINFORCING BARS
QUALITY: B500B AS PER DIN 488:2010

SIZE mm	LENGTH mm	WEIGHT MT	NUMBER OF BUNDLES	QUALITY	STANDARD
12	6000 -0/+100	149.700	101	B500B	DIN488
12	12000 -0/+100	300.080	135	B500B	DIN488

Chemical Composition - %

Size mm	Heat number	C x100	Mn x100	Si x100	P x1000	S x1000	Cr x100	Ni x100	Cu x100	Mo x1000	V x1000	N x1000	Ceq
12	111249	21	59	19	19	12	6	3	4	10	1	7	0,33
12	120879	21	61	18	13	4	4	3	5	10	1	9	0,33
12	211586	21	65	17	24	23	6	3	6	5	2	8	0,34
12	220226	22	104	29	22	11	4	3	4	5	1	9	0,41
12	220663	21	59	16	19	5	4	2	4	5	1	8	0,32
12	220995	21	59	17	15	5	5	2	3	5	1	7	0,32
12	221236	22	113	31	19	9	2	2	2	5	1	8	0,42
12	222170	21	65	15	14	36	5	2	3	5	1	8	0,33
12	222196	21	62	20	16	27	4	2	3	5	1	10	0,33
12	222341	22	110	31	18	35	4	5	4	7	2	8	0,42
12	913014	20	62	17	15	4	4	3	5	10	1	9	0,32
12	913014	20	62	17	15	4	4	3	5	10	1	9	0,32
12	924257	21	60	19	20	13	5	2	4	10	1	9	0,33
12	924257	21	60	19	20	13	5	2	4	10	1	9	0,33
12	924345	21	59	18	17	13	6	3	4	10	1	8	0,33

Mechanical properties 1Mpa = 1N/mm2

Size mm	Heat number	Yield point Re, MPa	Tensile strength Rm, MPa	Rm/Re	Elongation A σ, %	Re,a/ Re,n	Agt %	Fr	Bend	Rebend
12	111249	575	655	1,14	25,0	1,15	11,1	0,058	GOOD	OK
12	120879	589	675	1,15	25,8	1,18	10,3	0,068	GOOD	OK
12	211586	588	664	1,13	25,8	1,18	11,3	0,066	GOOD	OK
12	220226	584	672	1,15	25,0	1,17	10,3	0,069	GOOD	OK
12	220663	560	641	1,14	22,5	1,12	9,8	0,057	GOOD	OK
12	220995	566	644	1,14	23,3	1,13	12,8	0,064	GOOD	OK
12	221236	584	675	1,16	22,0	1,17	11,3	0,071	GOOD	OK
12	222170	604	678	1,12	25,0	1,21	11,4	0,074	GOOD	OK
12	222196	604	682	1,13	24,3	1,21	9,6	0,069	GOOD	OK
12	222341	575	666	1,16	25,0	1,15	11,8	0,059	GOOD	OK
12	913014	575	655	1,14	24,2	1,15	10,5	0,070	GOOD	OK
12	913014	582	657	1,13	26,0	1,16	11,7	0,077	GOOD	OK
12	924257	588	651	1,11	24,0	1,18	9,8	0,069	GOOD	OK
12	924257	604	672	1,11	21,7	1,21	11,1	0,071	GOOD	OK
12	924345	584	657	1,13	23,0	1,17	9,6	0,070	GOOD	OK

- It is hereby certified that the quality of goods mentioned in this Document is in conformity with conditions and the goods may be exported
- The production is not a source of radioactive radiation. It do not exceed the limit values for radiation, which may have a negative impact on the human body
- QMS: SGS certificate according to ISO 9001: 2015

Date: 11.10.2022

