

# U.S. RUBBER CORP.

## GENERAL PURPOSE AGGREGATE CONVEYOR BELTING

Manufactured in the USA



### LOADSTAR ADVANTAGES

- 10:1 Service Factor Poly/Nylon carcass
- Low Elongation Less than 2% at 100% working tension.
- Premium "wet" application strength.
- Premium fastener holding capabilities.
- Premium impact and tear resistance.
- Excellent troughability.

### US RUBBER OVER 30 YEARS SERVICING THE INDUSTRY

Excellent heavy duty conveyor belt for high performance and tough applications. Covers are designed for greater life and cost savings for the customer.

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## LOAD STAR SPECIFICATIONS

LOAD STAR	FABRIC STYLE	LOAD STAR 110			LOAD STAR 125			LOAD STAR 150			
SPECIFICATIONS	BELT STYLE	2-220	3-330	4-440	2-250	3-375	4-500	2-300	3-450	4-600	5-750
Number of Plies		2	3	4	2	3	4	2	3	4	5
Working Strength PIW	Mechanical	220	330	440	250	375	500	300	450	600	750
Rating pounds PIW	Vulcanized	220	330	440	250	375	500	330	500	660	830
Approx. Carcass Gauge		.116	.165	.215	.128	.186	.247	.160	.206	.280	.354
Approx. Carcass Wt. PIW/ft		.060	.080	.115	.060	.092	.130	.105	.115	.152	.192
Average Cover Wt. per 1/16"	Gauge PIW/ft.	.033	.033	.033	.033	.033	.033	.033	.033	.033	.033
Impact Rating (Foot-Pounds)		460	665	875	490	728	1031	680	994	1310	1497

### CONVEYOR BELT CRITERIA

#### MINIMUM PULLEY DIAMETER

81-100% TENSION	16"	18"	24"	16"	18"	24"	16"	22"	28"	30"
61-80% TENSION	14"	16"	20"	14"	16"	20"	14"	18"	22"	24"
UP TO 60% TENSION	10"	12"	16"	12"	14"	18"	12"	16"	20"	20"

#### MINIMUM BELT WIDTH FOR EMPTY BELT TROUGHING

20 Degree Idlers	16"	24"	30"	16"	24"	30"	18"	24"	30"	36"
35 Degree Idlers	18"	24"	30"	18"	24"	30"	24"	30"	36"	36"
45 Degree Idlers	30"	30"	36"	24"	30"	36"	24"	30"	36"	42"

#### MAXIMUM BELT WIDTH FOR LOAD SUPPORT

20 Degree Idlers	0-40 #/CU.FT.	54"	66"	72"	54"	72"	72"	72"	72"	72"	72"
	41-80 #/CU.FT.	42"	60"	72"	48"	60"	72"	60"	66"	72"	72"
	81-120 #/CU.FT.	42"	54"	72"	42"	54"	72"	54"	60"	72"	72"
	Over 120 #/CU.FT.	36"	48"	60"	36"	48"	60"	48"	54"	66"	72"
35 Degree Idlers	0-40 #/CU.FT.	48"	60"	72"	48"	60"	72"	60"	66"	72"	72"
	41-80 #/CU.FT.	42"	54"	66"	42"	60"	60"	54"	60"	72"	72"
	81-120 #/CU.FT.	36"	48"	60"	42"	54"	60"	48"	54"	66"	72"
	Over 120 #/CU.FT.	30"	42"	54"	30"	42"	54"	42"	48"	60"	66"
45 Degree Idlers	0-40 #/CU.FT.	48"	54"	72"	48"	54"	72"	60"	60"	72"	72"
	41-80 #/CU.FT.	36"	48"	60"	36"	48"	54"	48"	54"	66"	72"
	81-120 #/CU.FT.	30"	42"	54"	30"	48"	54"	42"	48"	60"	66"
	Over 120 #/CU.FT.	30"	36"	48"	NR	36"	48"	36"	42"	54"	60"

### ELEVATOR BELT CRITERIA

ELEVATOR TENSION RATINGS (PIW)	190	280	370	200	290	385	260	390	520	645
MINIMUM PULLEY DIAMETERS										
81-100% Tension	18"	18"	24"	16"	18"	24"	18"	22"	30"	36"
61-80% Tension	16"	16"	20"	14"	16"	22"	16"	20"	24"	30"
Up to 60% Tension	12"	14"	18"	12"	14"	20"	14"	18"	20"	24"

#### MAXIMUM BUCKET PROJECTION

100# 'CU.FT.!' OR LESS										
Spaced Industrial	6"	7"	10"	7"	8"	10"	7"	9"	10"	11"
Continuous Industrial	5"	7"	10"	6"	8"	10"	7"	9"	12"	14"

- Fastener selection is based on belt thickness, pulley diameters and working tension of the belt. Please refer to fastener manufacturer's specifications for proper fastener selection.

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## LOAD STAR SPECIFICATIONS

LOAD STAR 200					LOAD STAR 250			LOAD STAR 300				LOAD STAR 300		
2-400	3-600	4-800	5-1000	6-1200	2-500	3-750	4-1000	2-600	3-900	4-1200	5-1500	2-800	3-1200	4-1600
2	3	4	5	6	2	3	4	2	3	4	5	2	3	4
400	600	800	1000	1200	500	750	1000	600	900	1200	1500	800	1200	1600
440	660	880	1100	1320	550	825	1100	660	990	1320	1650	880	1320	1760
.163	.225	.300	.379	.453	.200	.280	.380	.240	.370	.510	.660	.300	.450	.630
.105	.115	.152	.194	.235	.108	.152	.206	.130	.200	.276	.358	.164	.244	.341
.033	.033	.033	.033	.033	.033	.033	.033	.033	.033	.033	.033	.033	.033	.033
805	1000	1135	1220	1290	915	1115	1165	930	1130	1240	1300			
18"	24"	30"	36"	42"	24"	30"	36"	22"	36"	42"	45"			
16"	20"	24"	30"	36"	20"	24"	30"	18"	30"	33"	40"			
14"	18"	20"	24"	30"	18"	20"	24"	16"	26"	30"	33"			
24"	30"	36"	42"	48"	30"	36"	42"	30"	42"	48"	54"			
30"	30"	36"	42"	48"	36"	36"	42"	30"	42"	48"	54"			
30"	36"	42"	48"	54"	36"	42"	48"	36"	48"	54"	60"			
66"	72"	72"	72"	72"	72"	72"	72"	72"	72"	72"	72"			
60"	72"	72"	72"	72"	66"	72"	72"	72"	72"	72"	72"			
54"	72"	72"	72"	72"	60"	72"	72"	60"	72"	72"	72"			
48"	60"	72"	72"	72"	54"	60"	72"	54"	60"	72"	72"			
66"	72"	72"	72"	72"	72"	72"	72"	72"	72"	72"	72"			
60"	60"	72"	72"	72"	66"	66"	72"	60"	72"	72"	72"			
54"	60"	72"	72"	72"	60"	66"	72"	54"	72"	72"	72"			
48"	54"	60"	66"	72"	54"	60"	72"	48"	60"	72"	72"			
60"	72"	72"	72"	72"	66"	66"	72"	72"	66"	72"	72"			
54"	54"	72"	72"	72"	60"	66"	72"	54"	60"	72"	72"			
48"	54"	60"	72"	72"	54"	54"	72"	48"	60"	72"	72"			
42"	48"	54"	60"	72"	48"	48"	72"	42"	54"	72"	72"			
345	520	690	870	1030	425	630	850	520	755	1015	1215			
22"	26"	36"	42"	48"	26"	32"	42"	24"	36"	45"	54"			
20"	24"	30"	36"	42"	24"	28"	36"	22"	30"	38"	48"			
18"	22"	24"	30"	36"	22"	26"	30"	20"	28"	33"	42"			
9"	10"	11"	12"	12"	10"	11"	12"	10"	11"	12"	12"			
9"	12"	14"	16"	20"	11"	14"	16"	8"	13"	16"	18"			

- Minimum pulley diameters are dependent on the type of splice, fastener used, belt tension and belt tension required.
- Troughability and Load Support can be dependent on cover gauges and compounds used.
- Impact rating is based on the use of proper rubber impact idlers or bed plus proper loading and transfer conditions. Rating are based on 10% lumps and 90% fines or sized material up to 4" lumps. If proper impact idlers or beds are not used, impact rating is downgraded by half or less depending upon the conditions.

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## GENERAL PURPOSE

## AGGREGATE CONVEYOR BELTING

### GENERAL PURPOSE BELTING

#### GRADE I

This is a premium rubber compound designed for exceptional resistance to cutting, gouging and tearing caused by the impact of heavy or sharp materials or the combination of both.

This compound exceeds RMA's new Grade I requirements by a considerable margin. Recommended for transporting heavy slab ores, quartz, trap rock, granite, glass culler, ballast and similar products. Recommended service temperature -30 to 200 degrees F.

#### GRADE II

Recommended for the majority of surface, non-oily/hi heat applications. USR Grade II compounds approach RMA's new Grade I requirements.

Suited for conveying slag, lime rock, coal, bauxite, limestone, crushed rock, sand and other abrasive materials. Recommended service temperature -25 to 180 degrees F.

#### RUBSTONE Super Abrasion Resistant (SAR)

Recommended for applications where severe abrasion is a concern. Ideally suited for crushed stone, trap rock, copper or gold ore, sinter, coke, log handling, primary crushers and other abrasive materials. Recommended service temperature -30 to 200 degrees F.

### Superior Quality

Every U.S. Rubber Corp. belt is designed to provide excellent service life and deliver the lowest cost per ton conveyed. Only premium polymers and select additives are utilized to prepare compounds that are customer tested and "proven" in belting applications throughout the world.

U.S. Rubber Corp. researches, designs, tests and mixes all of its compounds at the Conroe, Texas, facility; providing our customers with fresh, reliable, state of the art compounds for all of their conveying needs.



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